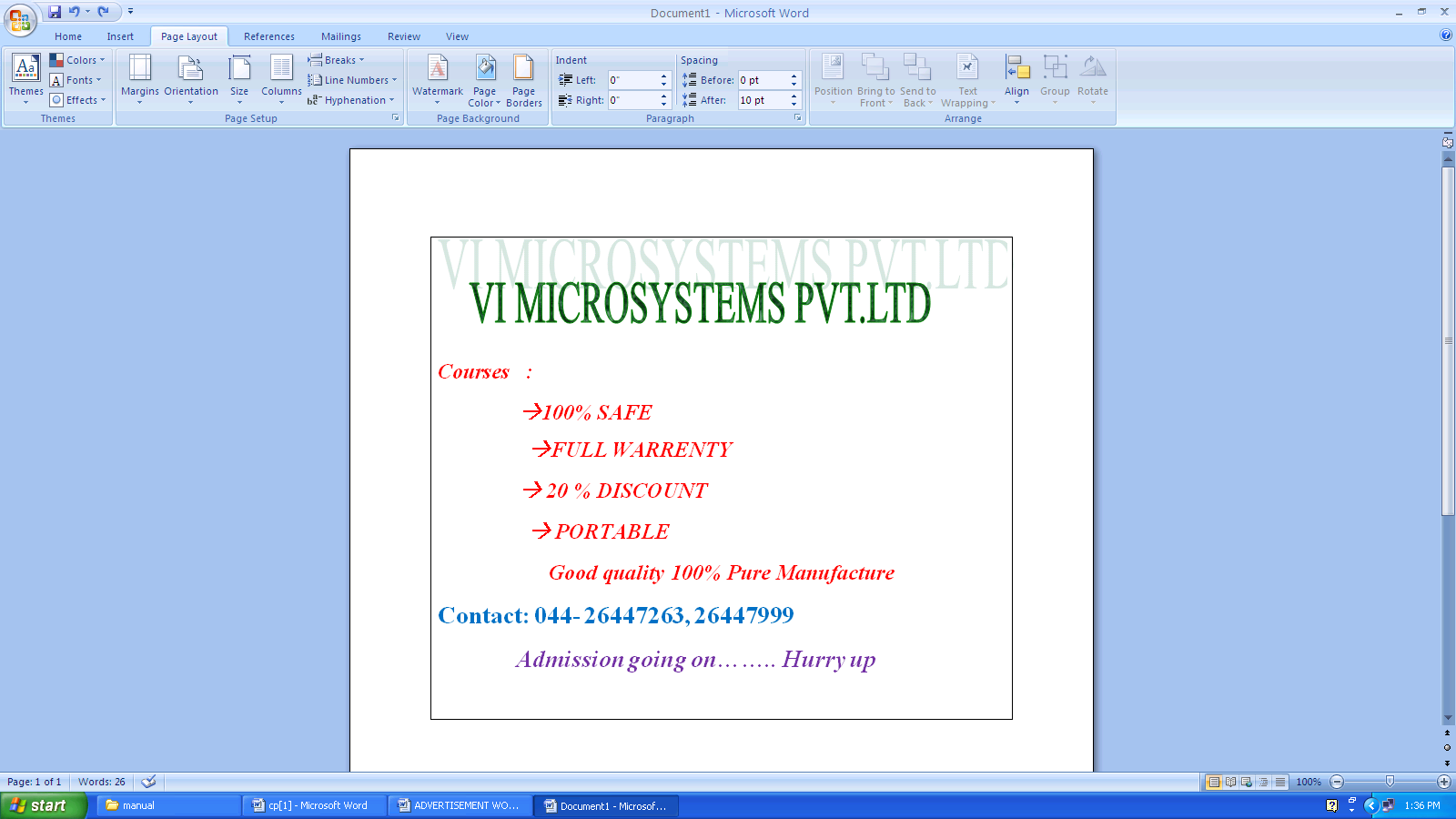
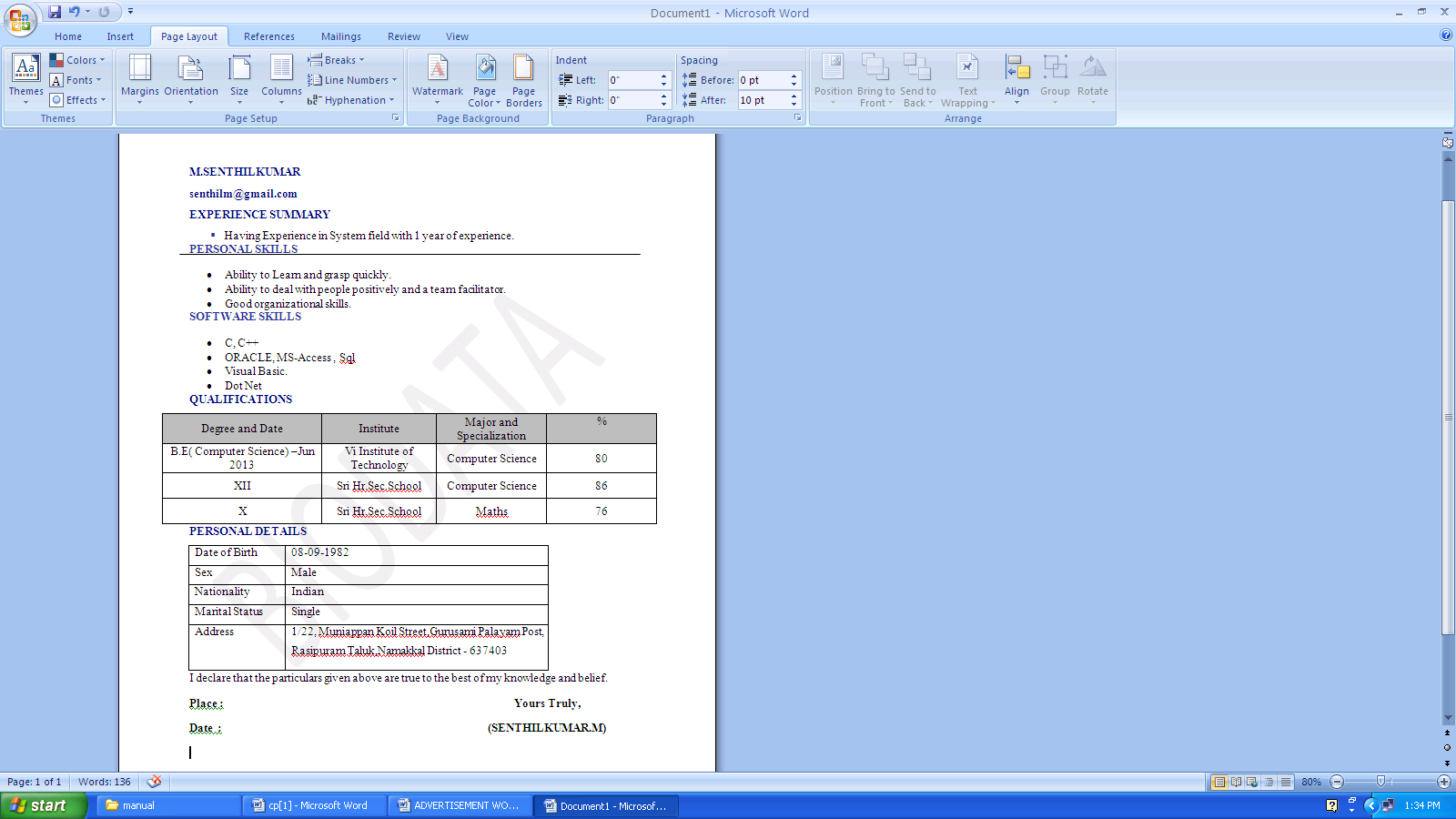
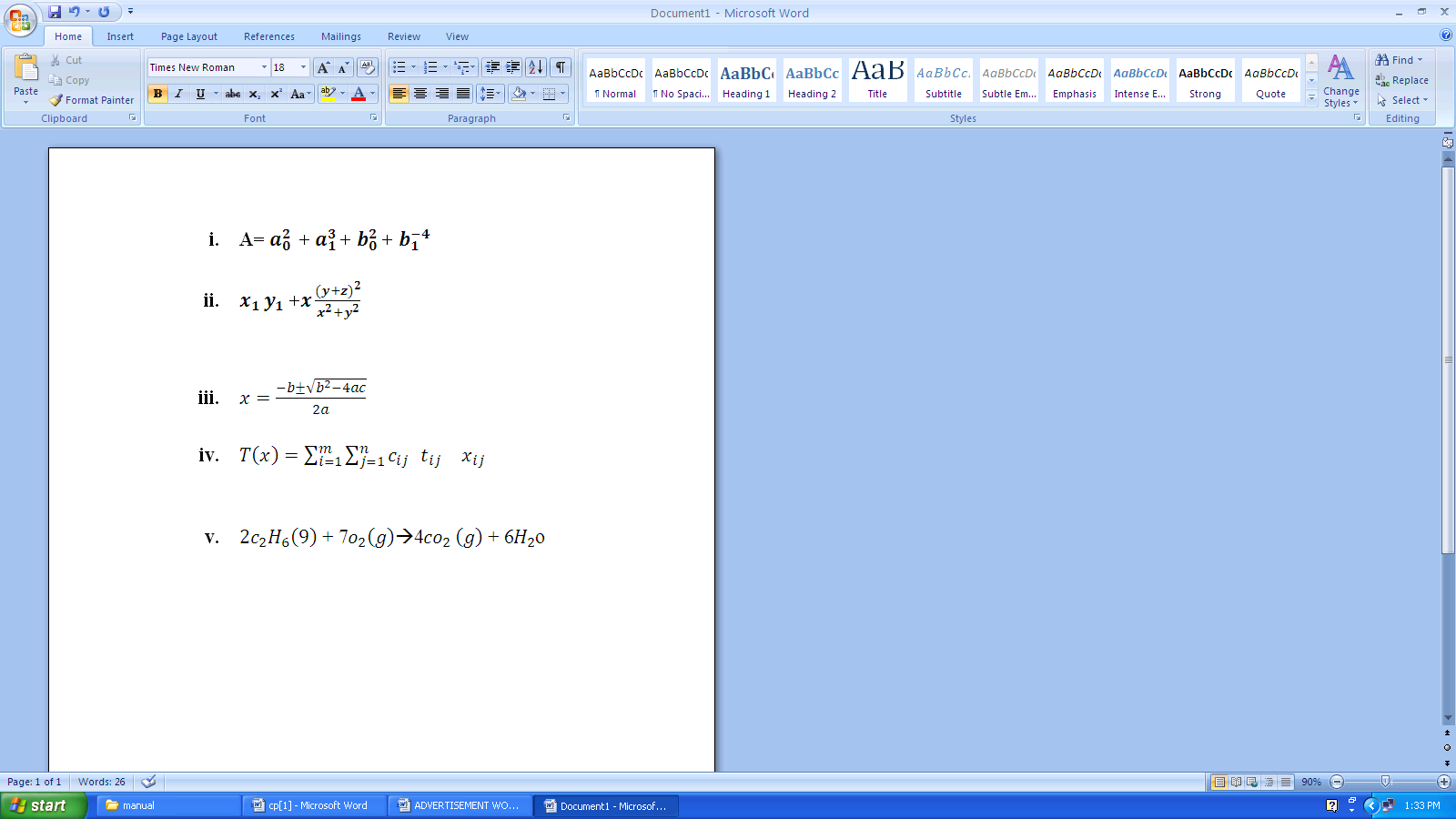
**OUTPUT:-**

****

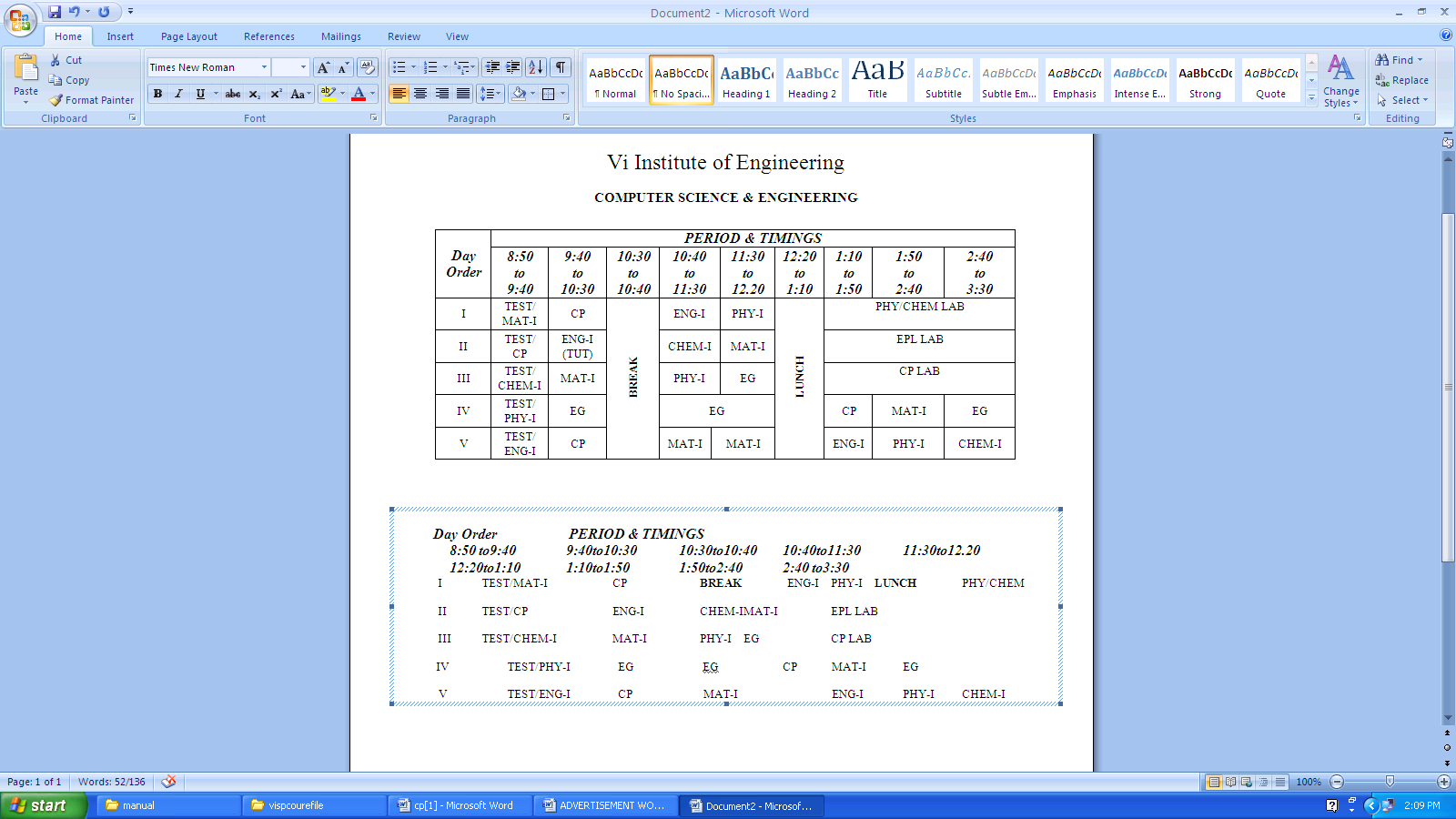
**OUTPUT:**



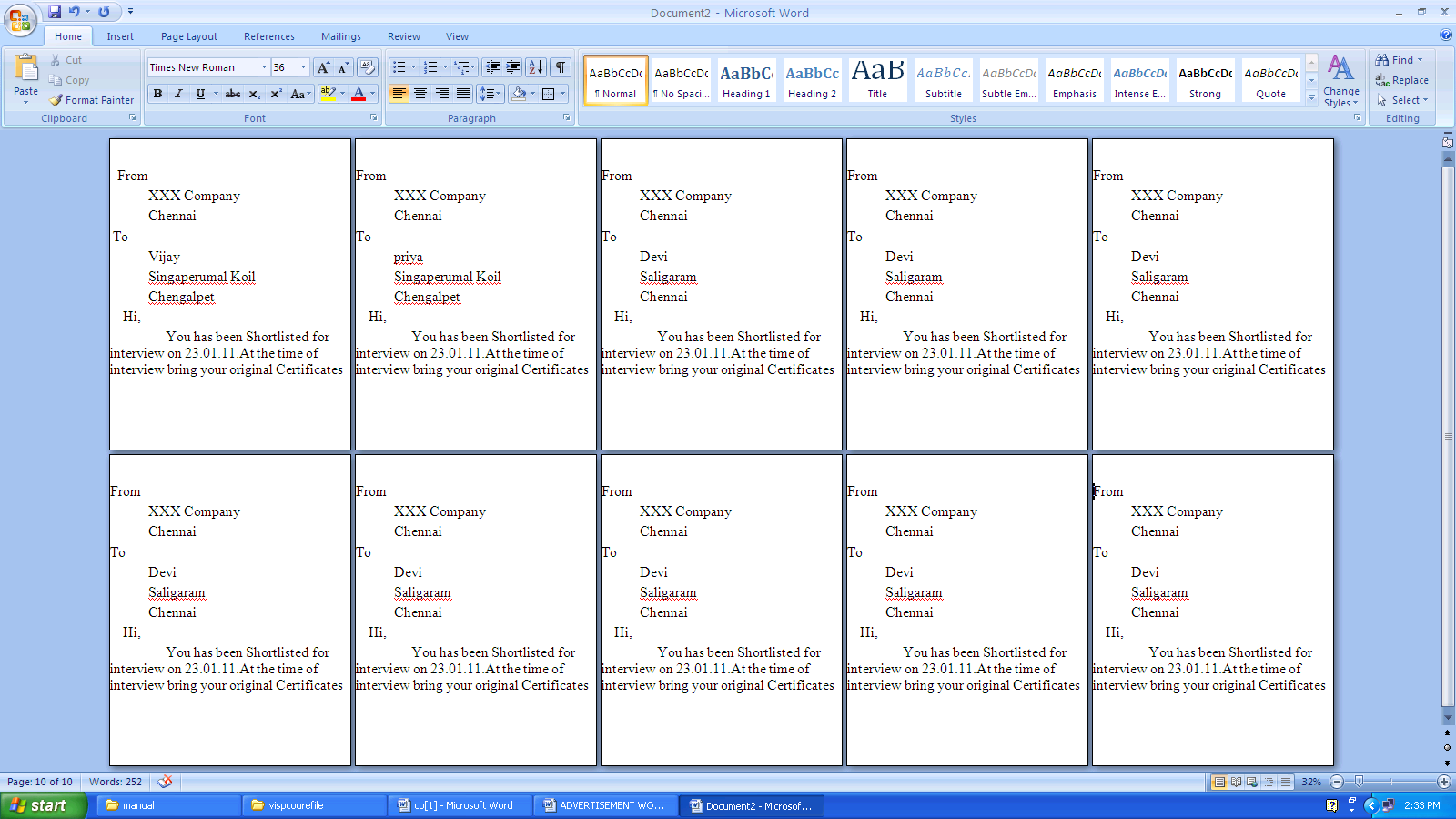
**OUTPUT:-**



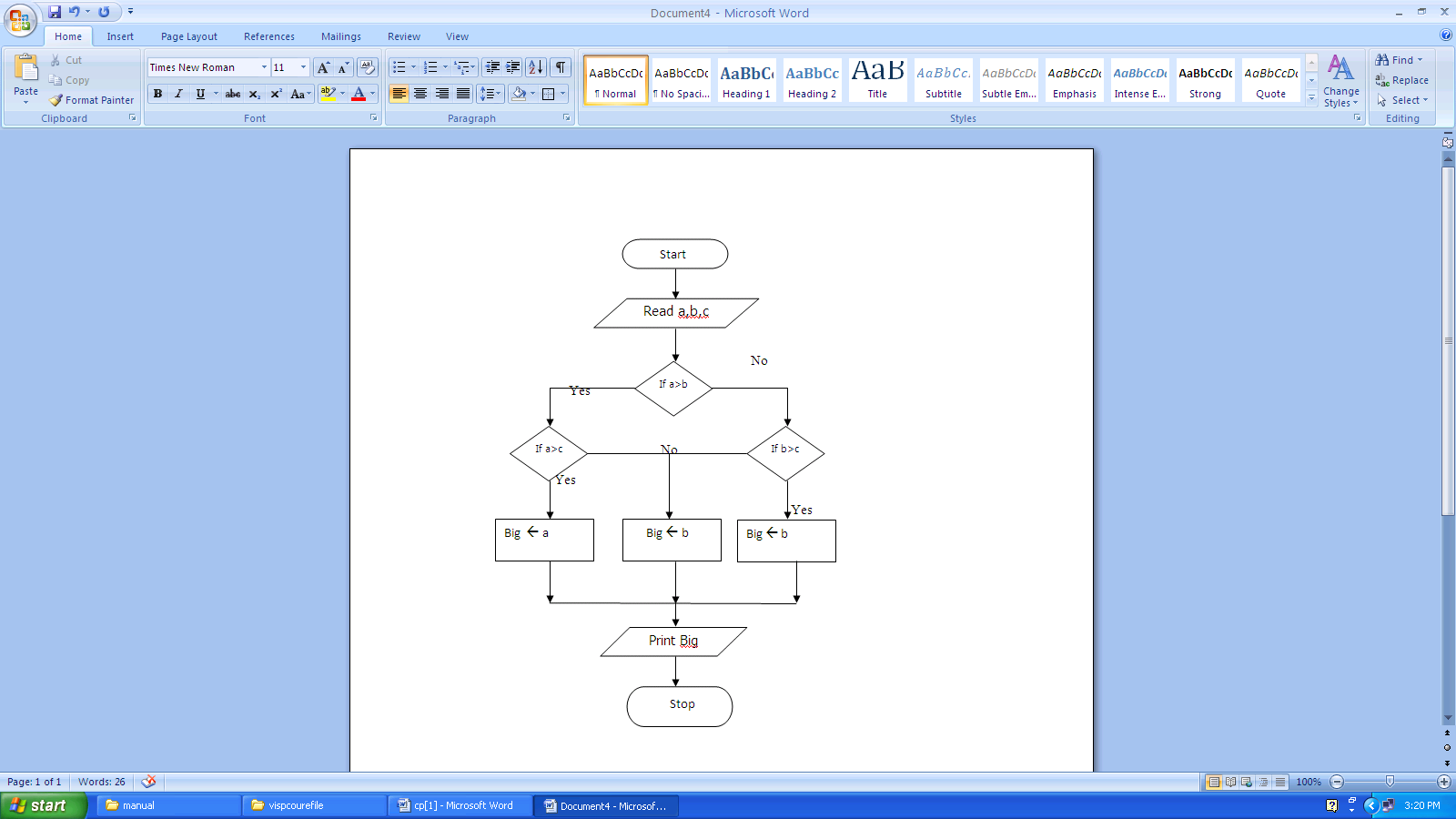
**OUTPUT:-**



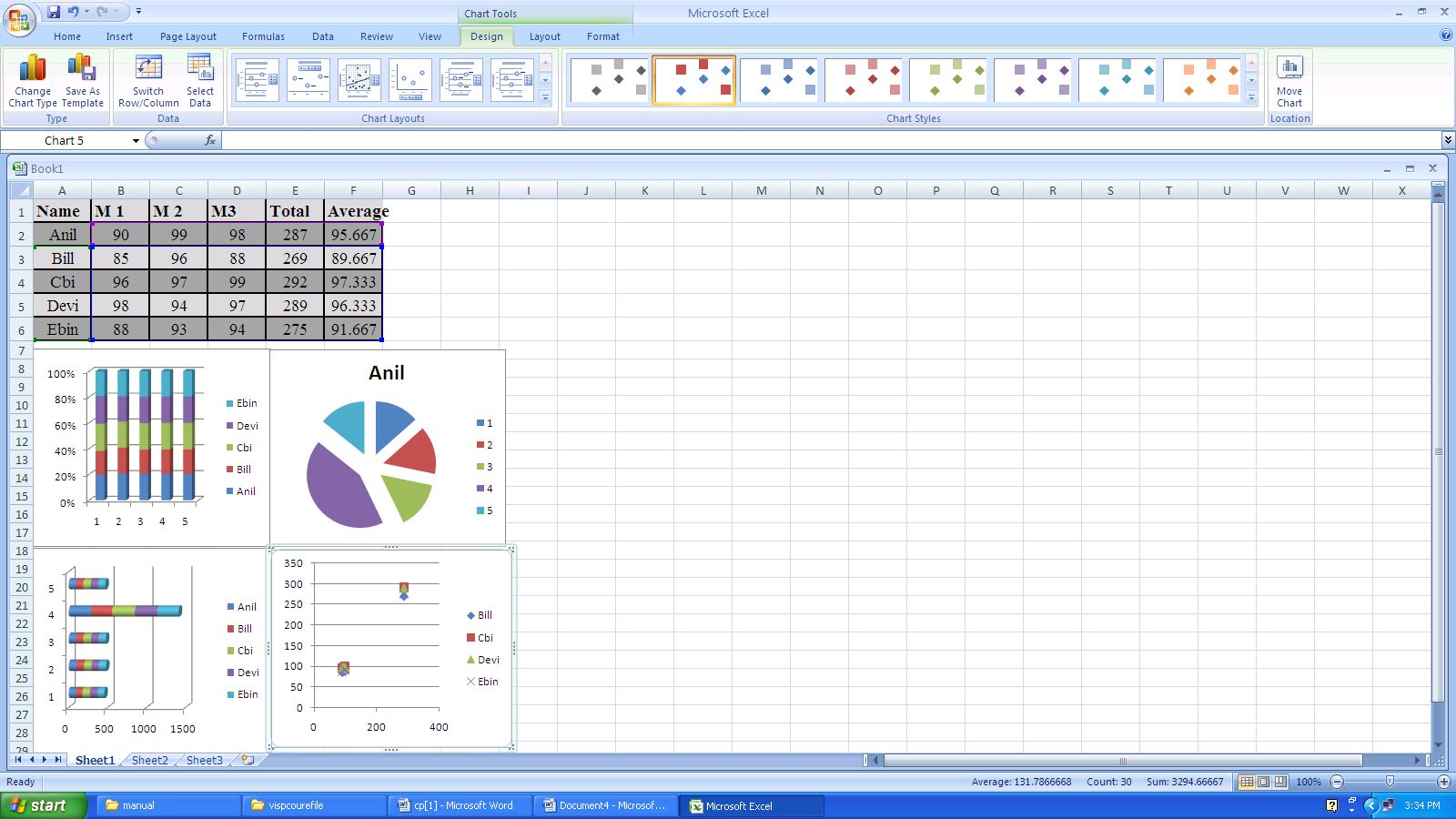
**OUTPUT:-**



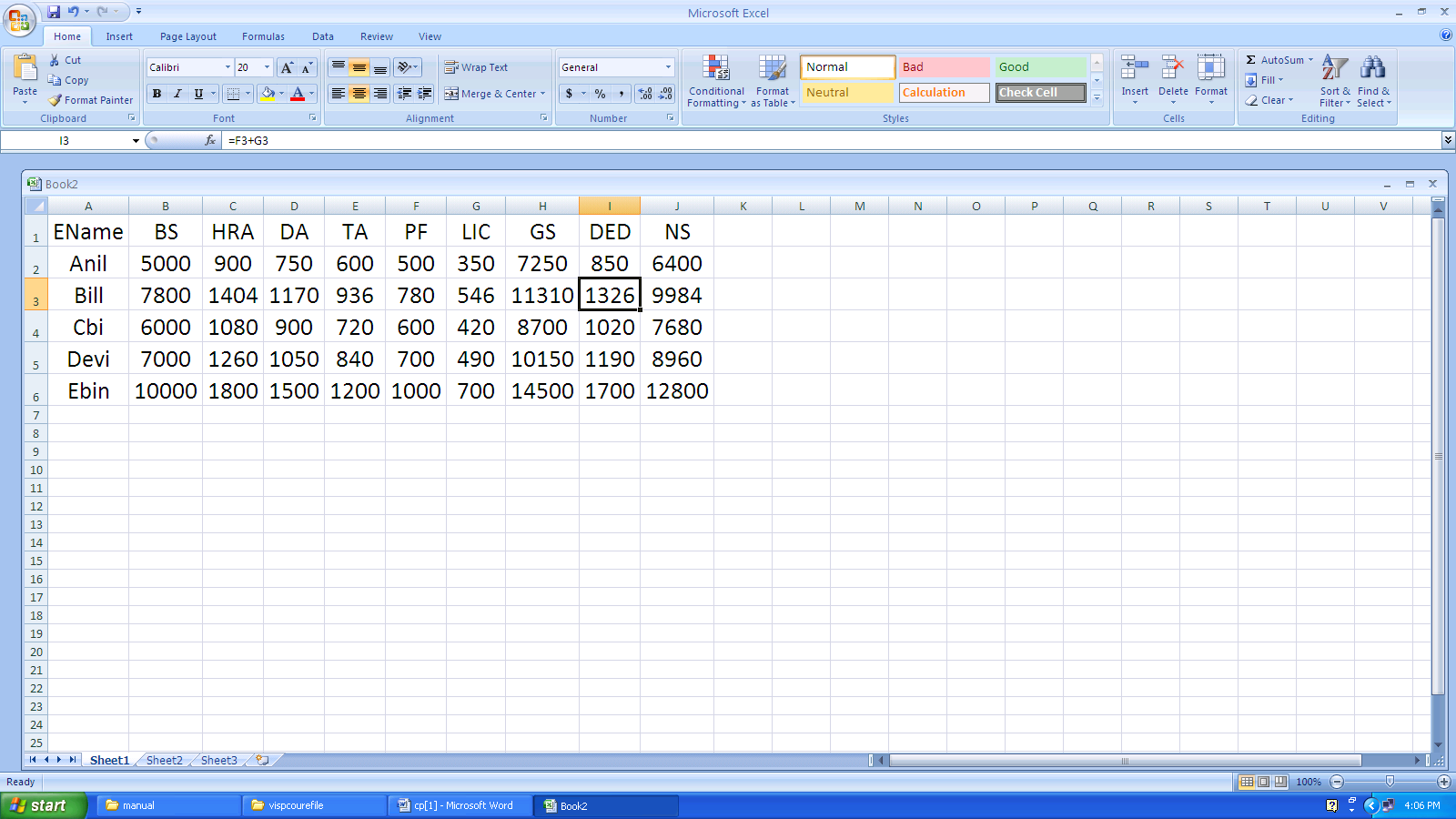
**OUTPUT:-**

****

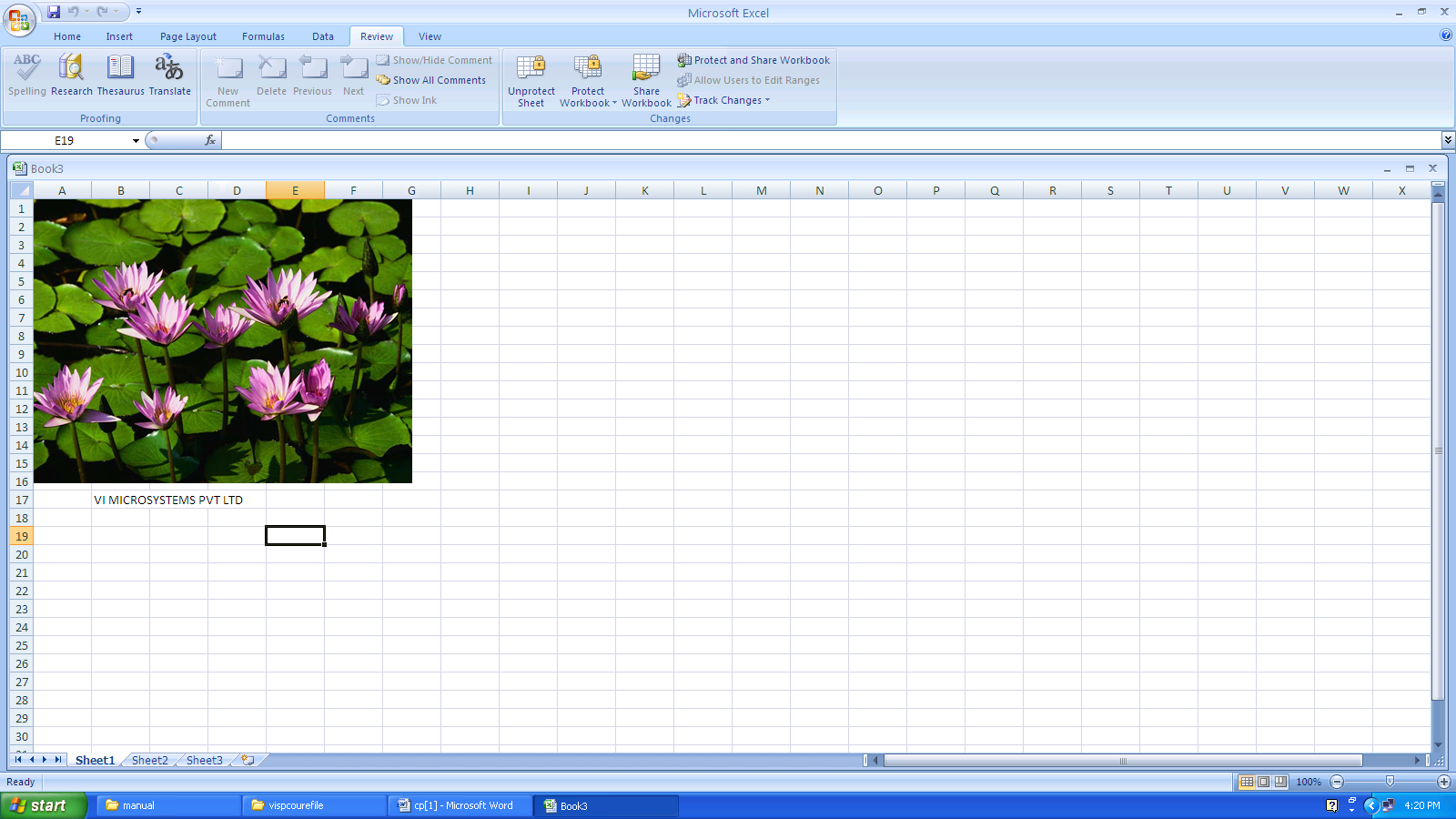
**OUTPUT:-**



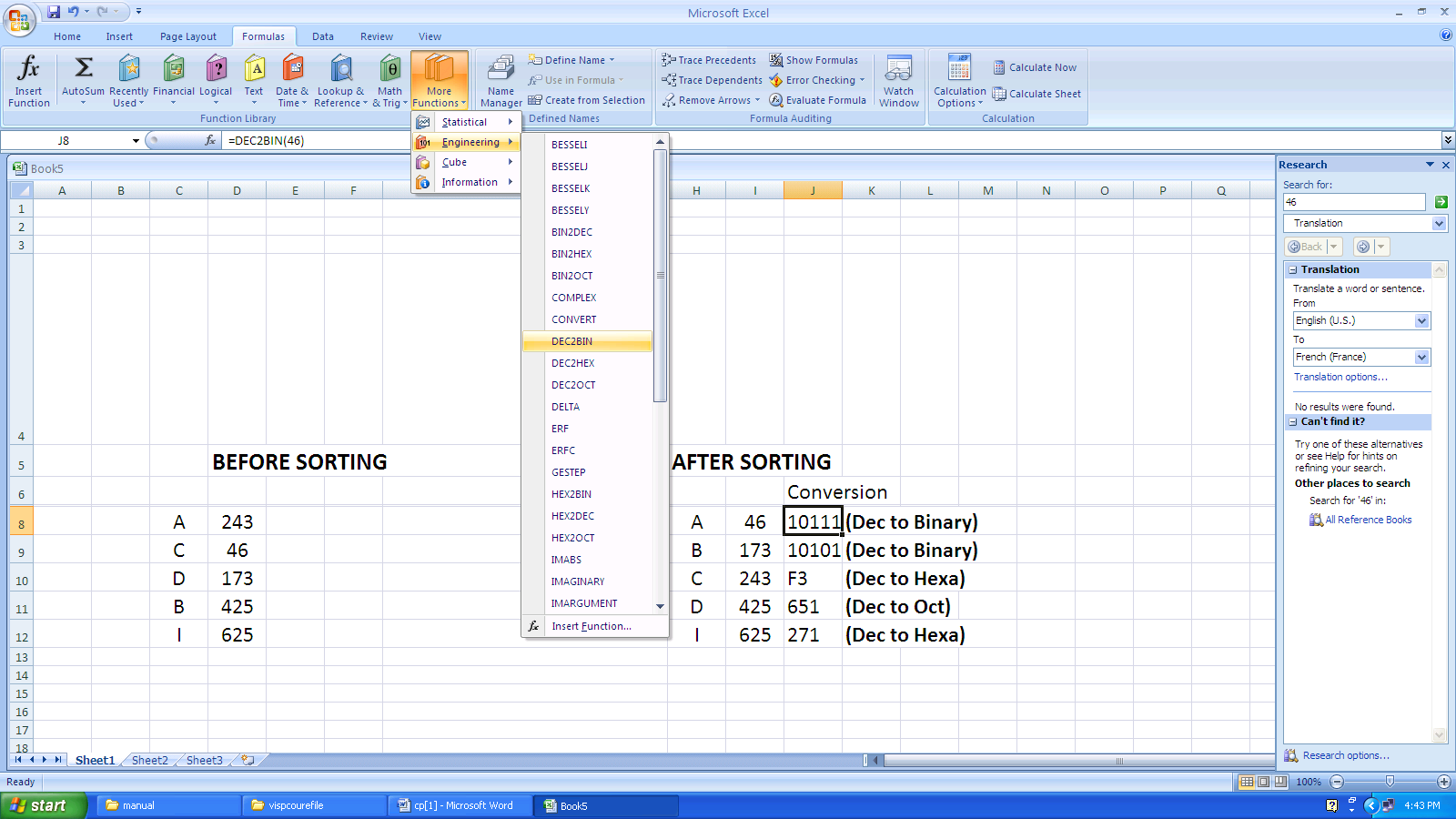
**OUTPUT:-**

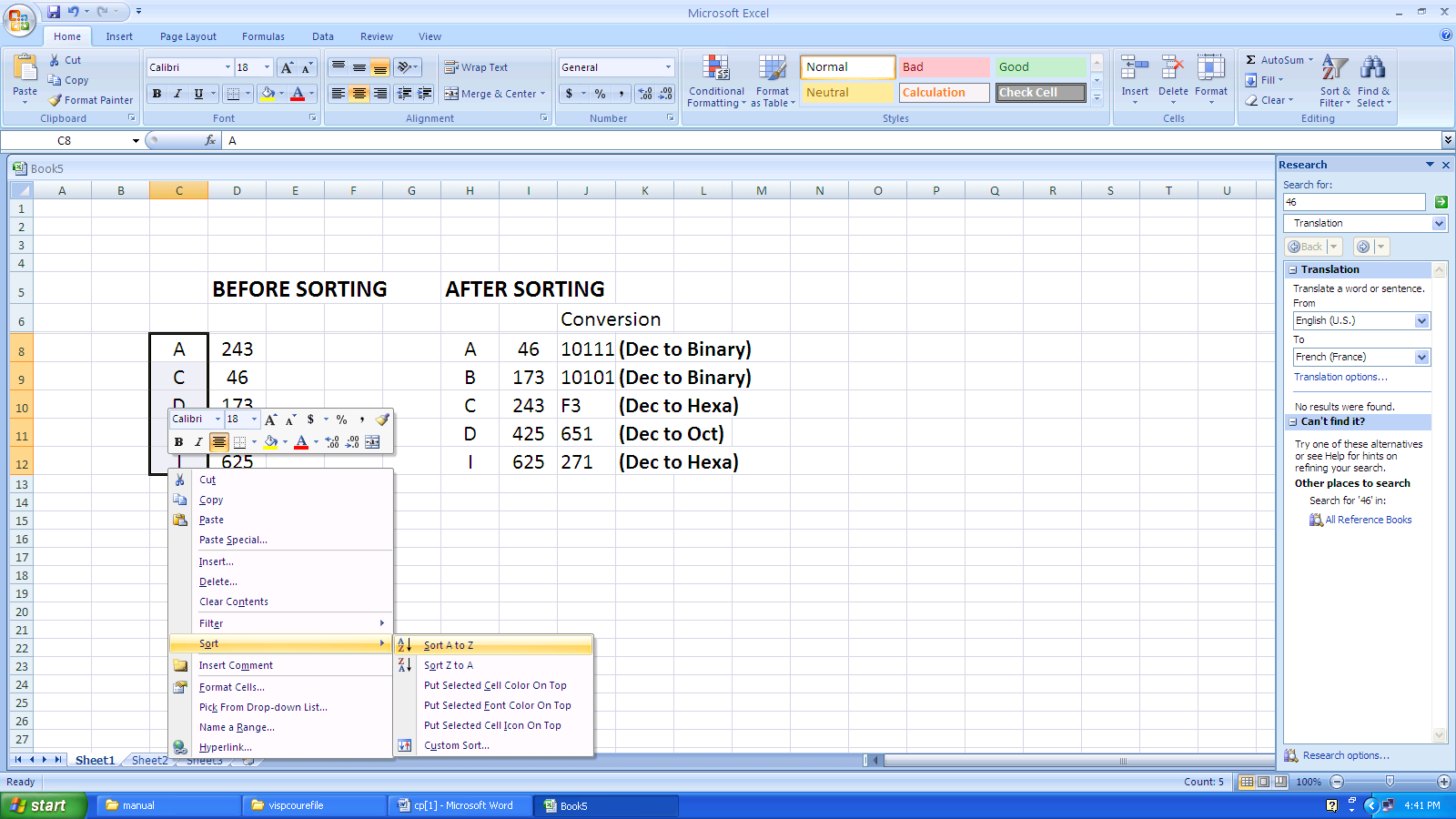


**OUTPUT:-**

****

**OUTPUT:-**





**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

float b;

int a;

printf("\nEnter an Integer\n");

scanf("%d",&a);

b=(float)a;

printf("\nThe Converted float value is %f",b);

}

**OUTPUT:**

Enter an Integer

45

The Converted float value is 45.00000

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int a,b,c;

printf("Enter Number 1\n");

scanf("%d",&a);

printf("Enter Number 2\n");

scanf("%d",&b);

c=a\*b;

printf("\nThe Multiplication Result is %d\n",c);

}

**OUTPUT:**

Enter Number 1

34

Enter Number 2

7

The Multiplication Result is 238

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int m1,m2,m3,m4,m5,tot;

float avg;

printf("Enter 5 Marks\n");

scanf("%d%d%d%d%d",&m1,&m2,&m3,&m4,&m5);

tot=m1+m2+m3+m4+m5;

avg=tot/5;

printf("\nThe Average is %f\n",avg);

}

**OUTPUT:**

Enter 5 Marks

80

75

85

90

95

The Average is 92.5

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int v,g,c,d,dr;

float r,nr;

printf("Enter the value of v\n");

scanf("%d",&v);

printf("Enter the value of g\n");

scanf("%d",&g);

printf("Enter the value of c\n");

scanf("%d",&c);

printf("Enter the value of d\n");

scanf("%d",&d);

nr=(2\*v)+(6.22\*c\*d);

dr=g+v;

r=nr/dr;

printf("The Evaluated Result is %f\n",r);

}

**OUTPUT:**

Enter the value of v

2

Enter the value of g

4

Enter the value of c

6

Enter the value of d

8

The Evaluated Result is 50.426666

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int mm,m;

printf("Enter the Millimeter\n");

scanf("%d",&mm);

m=mm\*1000;

printf("The Converted meter is %d",m);

}

**OUTPUT:**

Enter the Millimeter

12

The Converted meter is 12000

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int a,rem;

printf("Enter a Number\n");

scanf("%d",&a);

rem=a%2;

if(rem==0)

printf("The Given Number is Even");

else

printf("The Given Number is Odd");

}

**OUTPUT:**

Enter a Number

13

The Given Number is Odd

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int a,b,c;

printf("Enter 3 Numbers\n");

scanf("%d%d%d",&a,&b,&c);

if(a>b)

{

if(a>c)

{

printf("The First Number %d(a) is Biggest\n",a);

}

}

else if(b>c)

16

{

printf("The Second Number %d(b) is Biggest\n",b);

}

else

printf("The Third Number %d(c) is Biggest\n",c);

}

**OUTPUT:**

Enter 3 Numbers

5

9

2

The Second Number 89(b) is Biggest

**PROGRAM:**

#include<stdio.h>

main()

{

int i,n,sum=0;

printf("Enter the range\n");

scanf("%d",&n);

i=1;

while(i<=n)

{

sum=sum+i;

i++;

}

printf("\nThe sum of first %d numbers is %d\n",n,sum);

}

**OUTPUT:**

Enter the range

16

The sum of first 16 numbers is 136

**PROGRAM:**

#include<stdio.h>

main()

{

int n,i,sum=0;

printf("Enter a Number\n");

scanf("%d",&n);

do

{

i=n%10;

sum=sum+i;

n=n/10;

}while(n>0);

printf("The Sum of digit is %d\n",sum);

}

**OUTPUT:**

Enter a Number

5891

The Sum of digit is 23

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<math.h>

int factorial(int n)

{

int i,sum=1;

for(i=1;i<=n;i++)

sum=sum\*i;

return sum;

}

main()

{

int i,n,j,dr;

float res=0.0,x,nr;

printf("\nEnter the Value of x\n");

scanf("%f",&x);

printf("\nEnter the total no of terms\n");

scanf("%d",&n);

j=1;

for(i=1;i<n\*2;i+=2)

{

nr=pow(x,i)\*j;

dr=factorial(i);

res+=(nr/dr);

j=-j;

}

printf("The Result of sine series is : %f\n",res);

}

**OUTPUT:**

Enter the Value of x

0.21

Enter the total no of terms

5

The Result of sine series is : 0.208460

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int a,b,ch,c;

printf("\nEnter the Number 1:\n");

scanf("%d",&a);

printf("\nEnter the Number 2:\n");

scanf("%d",&b);

printf("\n1.Add\n2.Subtract\n3.Multiply\n4.Divide\n");

printf("\nEnter the Choice:\n");

scanf("%d",&ch);

switch(ch)

{

case 1:

c=a+b;

printf("\n %d + %d = %d\n",a,b,c);

break;

case 2:

c=a-b;

printf("\n %d - %d = %d\n",a,b,c);

break;

case 3:

c=a\*b;

printf("\n %d \* %d = %d\n",a,b,c);

break;

case 4:

c=a/b;

printf("\n %d / %d = %d\n",a,b,c);

break;

}

}

**OUTPUT:**

Enter the Number 1:

15

Enter the Number 2:

56

1.Add

2.Subtract

3.Multiply

4.Divide

Enter the Choice:

2

15 - 56 = -41

Enter the Choice:

3

15\*56=840

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<math.h>

main()

{

int a,i,sum=0,n,ch,m;

printf("\nEnter a Number\n");

scanf("%d",&a);

printf("\n1.Palindrome\n2.Armstrong\n3.Prime\n");

printf("\nEnter the Choice:\n");

scanf("%d",&ch);

switch(ch)

{

case 1:

n=a;

while(a>0)

{

i=a%10;

sum=(sum\*10)+i;

a=a/10;

}

if(n==sum)

printf("Given Number is Palindrome\n");

else

printf("Given Number is Not Palindrome\n");

break;

case 2:

n=a;

do

{

i=a%10;

sum=sum+(i\*i\*i);

a=a/10;

}while(a>0);

if(n==sum)

printf("Given Number is Armstrong\n");

else

printf("Given Number is Not Armstrong\n");

break;

case 3:

m=5;

n=sqrt(a);

for(i=2;i<=n;i++)

{

if(a%i==0)

{

m=0;

break;

}

}

if(m==0)

printf("Given Number is Prime\n");

else

printf("Given Number is Not Prime\n");

break;

}

}

**OUTPUT:**

Enter a Number

121

1.Palindrome

2.Armstrong

3.Prime

Enter the Choice:

1

Given Number is Palindrome

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int i,n,a[10],sum=0;

printf("Enter total no. of Elements\n");

scanf("%d",&n);

printf("Enter Array elements one by one\n");

for(i=0;i<n;i++)

scanf("%d",&a[i]);

for(i=0;i<n;i++)

sum=sum+a[i];

printf("The Sum of Array Elements is %d\n",sum);

}

**OUTPUT:**

Enter total no. of Elements

8

Enter Array elements one by one

15

69

32

10

45

66

32

11

The Sum of Array Elements is 280

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

main()

{

int i,n,a[10];

printf("Enter total no. of Elements\n");

scanf("%d",&n);

printf("Enter Array elements one by one\n");

for(i=0;i<n;i++)

scanf("%d",&a[i]);

printf("The even numbers of given array:\n");

for(i=0;i<n;i++)

{

if(a[i]%2==0)

printf("%d\n",a[i]);

}

}

**OUTPUT:**

Enter total no. of Elements

6

Enter Array elements one by one

98

11

35

61

22

14

The even numbers of given array:

98

22

14

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<string.h>

main()

{

int mat1[10][10],mat2[10][10],resultant[10][10]={0};

int m1,n1,m2,n2,I,j,k;

printf(“enter the order of matrix 1:”);

scanf(“%d %d”,&m1,&n1);

printf(“enter the elements of matrix:”);

for(i=0;i<m1;i++)

{

for(j=0;j<n1;j++)

scanf(“%d”,&mat1[i][j]);

}

printf(“enter the order of matrix 2:”);

scanf(“%d %d”,&m2,&n2);

printf(“enter the elements of matrix:”);

for(i=0;i<m2;i++)

{

for(j=0;j<n2;j++)

scanf(“%d”,&mat2[i][j]);

}

if(n1!=m2)

{

printf(“matrices are not compatible for multiplication”);

exit(0) ;

}

else

{

for(i=0;i<m1;i++)

for(j=0;j<n2;j++)

for(k=0;k<n1;k++)

resultant[i][j]=resultant[i][j]+mat1[i][k]\*mat2[k][j];

}

printf(“the result of matrix multiplication is”);

for(i=0;i<m1;i++)

{

for(j=0;j<n2;j++)

printf(“%d”, resultant is[i][j]);

printf(“\n”);

}

}

**OUTPUT:**

enter the order of matrix 1: 2 3

enter the elements of matrix:

1 2 3

4 5 6

enter the order of matrix 2: 3 3

enter the elements of matrix:

2 3 4

1 2 3

1 1 0

The result of matrix multiplication is

7 10 10

19 28 31

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<string.h>

main()

{

char s[20],s1[20];

printf("Enter a String\n");

scanf("%s",s);

strcpy(s1,s);

if(strcmp(s,s1)==0)

printf("The Given String is Palindrome\n");

else

printf("The Given String is Not Palindrome\n");

}

**OUTPUT:**

Enter a String

madam

The Given String is Palindrome

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<string.h>

main()

{

char s[20],s1[20];

printf("Enter a String1\n");

scanf("%s",s);

printf("Enter a String2\n");

scanf("%s",s1);

strcat(s,s1);

printf("The Concatenated String is %s\n",s);

}

**OUTPUT:**

Enter a String1

hai

Enter a String2

hello

The Concatenated String is haihello

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

void isleap()

{

int yr;

printf("Enter a Year\n");

scanf("%d",&yr);

if(yr%4==0)

printf("Given Year is Leap year");

else

printf("Given Year is Not a Leap year");

}

main()

{

isleap();

}

**OUTPUT:**

Enter a Year

1965

Given Year is Not a Leap year

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

#include<math.h>

float area()

{

int a,b,c;

float s,ar;

printf("Enter 3 Sides\n");

scanf("%d%d%d",&a,&b,&c);

s=(a+b+c)/2;

ar=sqrt(s\*(s-a)\*(s-b)\*(s-c));

return ar;

}

main()

{

float a;

a=area();

printf("The Area of Triangle is %f\n",a);

}

**OUTPUT:**

Enter 3 Sides

12

8

7

The Area of Triangle is 19.748418

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

void sorting(int a[],int n)

{

int i,j,t;

for(i=0;i<n-1;i++)

{

for(j=i+1;j<n;j++)

{

if(a[i]>a[j])

{

t=a[i];

a[i]=a[j];

a[j]=t;

}

}

}

printf("Array Elemets before sorting\n");

for(i=0;i<n;i++)

printf("%d\t",a[i]);

}

main()

{

int i,a[10],n;

printf("Enter total no. of elements\n");

scanf("%d",&n);

printf("Enter Array Elements one by one\n");

for(i=0;i<n;i++)

scanf("%d",&a[i]);

printf("Array Elemets before sorting\n");

for(i=0;i<n;i++)

printf("%d\t",a[i]);

printf("\n");

sorting(a,n);

}

**OUTPUT:**

Enter total no. of elements

6

Enter Array Elements one by one

21

2

9

45

30

11

Array Elements before sorting

21 2 9 45 30 11

Array Elements before sorting

2 9 11 21 30 45

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

int small(int a[],int n)

{

int s,i;

s=a[0];

for(i=0;i<n;i++)

{

if(a[i]<s)

s=a[i];

}

return s;

}

main()

{

int i,a[10],n,s;

printf("Enter total no. of elements\n");

scanf("%d",&n);

printf("Enter Array Elements one by one\n");

for(i=0;i<n;i++)

scanf("%d",&a[i]);

printf("Array Elemets:\n");

for(i=0;i<n;i++)

printf("%d\t",a[i]);

printf("\n");

s=small(a,n);

printf("The Smallest element of given array is %d",s);

}

**OUTPUT:**

Enter total no. of elements

5

Enter Array Elements one by one

1

98

2

66

0

Array Elements:

1 98 2 66 0

The Smallest element of given array is 0

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

void swap(int,int);

void main()

{

int a=10,b=20;

printf(“Before swap values are: %d%d\n”,a,b);

swap(a,b);

printf(“After swap values are: %d%d\n”,a,b);

}

void swap(int x,int y)

{

x=x+y;

y=x-y;

x=x-y;

printf(“In swap functions values are: %d%d\n”,x,y);

}

**OUTPUT:**

Before swap values are: 10 20

In swap functions values are: 20 10

After swap values are:10 20

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

void swap(int\*,int\*);

void main()

{

int a=10,b=20;

printf(“Before swap values are: %d%d\n”,a,b);

swap(&a,&b);

printf(“After swap values are: %d%d\n”,a,b);

}

void swap(int\* x,int \*y)

{

\*x=\*x+\*y;

\*y=\*x-\*y;

\*x=\*x-\*y;

printf(“In swap functions values are: %d%d\n”,\*x,\*y);

}

**OUTPUT:**

Before swap values are: 10 20

In swap functions values are: 20 10

After swap values are:20 10

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

int factorial(int n)

{

if(n==0 || n==1)

return 1;

else

return n\*factorial(n-1);

}

main()

{

int n;

printf("\nEnter a Number\n");

scanf("%d",&n);

printf("\nThe factorial of %d is %d\n",n,factorial(n));

}

**OUTPUT:**

Enter a Number 6

The factorial of 6 is 720

**PROGRAM:**

#include<stdio.h>

int sum(int n,int s)

{

if(n<10)

return n;

else

return (n%10)+sum(n/10,s);

}

main()

{

int n,s=0;

printf("\nEnter a Number\n");

scanf("%d",&n);

s=sum(n,s);

printf("\nThe sum of digits %d is %d\n",n,sum(n,s));

}

**OUTPUT:**

Enter a Number 46612

The sum of digits 46612 is 19

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

struct student

{

int rno,m1,m2,m3;

float avg;

char name[20],dept[10];

};

main()

{

struct student s;

printf("Enter the Student Details:\n");

printf("Enter the Stuent roll no:\n");

scanf("%d",&s.rno);

printf("Enter the Stuent Name:\n");

scanf("%s",&s.name);

printf("Enter the Stuent Dept:\n");

scanf("%s",&s.dept);

printf("Enter the 3 marks:\n");

scanf("%d%d%d",&s.m1,&s.m2,&s.m3);

s.avg=(s.m1+s.m2+s.m3)/3;

printf("The Student Average is :%f\n",s.avg);

}

**OUTPUT:**

Enter the Student Details:

Enter the Stuent roll no:

12

Enter the Stuent Name:

Kumar

Enter the Stuent Dept:

CSE

Enter the Stuent marks:

40

18

90

The Student Average is :49.000000

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

struct student

{

int rno,m1,m2,m3;

float avg;

char name[20],dept[10];

};

void find\_student(int a,struct student s[],int n)

{

int i;

printf("The Student Detail of %d\n",a);

for(i=0;i<n;i++)

{

if(s[i].rno==a)

{

printf("%s\t%s\t%d\t%d\t%d\t%f\n",s[i].name,s[i].dept,s[i].m1,s[i].m

2,s[i].m3,s[i].avg);

break;

}

}

}

main()

{

int i,n,rno;

struct student s[10];

printf("Enter total no. of Students\n");

scanf("%d",&n);

for(i=0;i<n;i++)

{

printf("Enter the Student %d Details:\n",(i+1));

printf("Enter the roll no:\n");

scanf("%d",&s[i].rno);

printf("Enter the Name:\n");

scanf("%s",&s[i].name);

printf("Enter the Dept:\n");

scanf("%s",&s[i].dept);

printf("Enter the 3 marks:\n");

scanf("%d%d%d",&s[i].m1,&s[i].m2,&s[i].m3);

s[i].avg=(s[i].m1+s[i].m2+s[i].m3)/3;

}

printf("Enter the rollno to find:\n");

scanf("%d",&rno);

find\_student(rno,s,n);

}

**OUTPUT:**

Enter total no. of Students

2

Enter the Student 1 Details:

Enter the roll no:

12

Enter the Name:

Kumar

Enter the Dept:

cse

Enter the 3 marks:

45

67

88

Enter the Student 2 Details:

Enter the roll no:

13

Enter the Name:

Prabhu

Enter the Dept:

cse

Enter the 3 marks:

77

89

67

Enter the rollno to find:

13

The Student Detail of 13

Prabhu cse 77 89 67 77.000000

**PROGRAM:**

#include<stdio.h>

#include<conio.h>

union book

{

int price;

char bname[20];

};

main()

{

union book b;

printf("Enter the Book Details:\n");

printf("Enter the Book Name:\n");

scanf("%s",&b.bname);

printf("Enter the Book Price:\n");

scanf("%d",&b.price);

printf("BOOK DETAILS:\n");

printf("%s\t%d\n",b.bname,b.price);

printf("Enter the Book Name:\n");

scanf("%s",b.bname);

printf("Book Name=%s\n",b.bname);

}

**OUTPUT:**

Enter the Book Details:

Enter the Book Name:

English

Enter the Book Price:

150

BOOK DETAILS:

150

Enter the Book Name:

English

Book Name=English

**PROGRAMS**

#include<stdio.h>

int main ()

{

int n = 20, \*pntr;

pntr = &n;

printf("Address of n variable: %x\n", &n );

printf("Address stored in pntr variable: %x\n", pntr );

printf("Value of \*pntr variable: %d\n", \*pntr );

return 0;

}

**OUTPUT:**

Address of n variable:2cb60f04

Address stored in pntr variable: 2cb60f04

Value of \*pntr variable:20

**PROGRAM**

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

int main()

{

char \*mem\_alloc;

mem\_alloc = malloc( 15 \* sizeof(char) );

if(mem\_alloc== NULL )

{

printf("Couldn't able to allocate requested memory\n");

}

else

{

strcpy( mem\_alloc,"w3schools.in");

}

printf("Dynamically allocated memory content : %s\n", mem\_alloc );

free(mem\_alloc);

}

**OUTPUT:**

Dynamically allocated memory content : W3Schools.in

**PROGRAM:**

#include<stdio.h>

#include<stdlib.h>

int main()

{

char ch, source\_file[25], target\_file[25];

FILE \*source, \*target;

printf("Enter name of file to copy\n");

gets(source\_file);

source = fopen(source\_file, "r");

if( source == NULL )

{

printf("Press any key to exit...\n");

exit(EXIT\_FAILURE);

}

printf("Enter name of target file\n");

gets(target\_file);

target = fopen(target\_file, "w");

if( target == NULL )

{

fclose(source);

printf("Press any key to exit...\n");

exit(EXIT\_FAILURE);

}

while( ( ch = fgetc(source) ) != EOF )

fputc(ch, target);

printf("File copied successfully.\n");

fclose(source);

fclose(target);

return 0;

}

**OUTPUT:**

Enter name of file to copy:

File1.c

Enter name of target file:

file2.c

File copied successfully

**PROGRAM**

#include <stdio.h>

int main()

{

FILE \*fp;

int no\_lines = 0;

char filename[40], sample\_chr;

printf("Enter file name: ");

scanf("%s", filename);

fp = fopen(filename, "r");

sample\_chr = getc(fp);

while (sample\_chr != EOF)

{

if (sample\_chr == '')

{

no\_lines=no\_lines+1;

}

sample\_chr = getc(fp);

}

fclose(fp);

printf("There are %d lines in %s", no\_lines, filename);

return 0;

}

**OUTPUT:**

Enter the file name:file1.txt

There are 5 lines in file1.txt