```
#include <stdio.h>
int main()
  printf("Hello World");
  return 0;
}
program 1
#include <stdio.h>
int main()
\{ int a=2,b=2, sum; \}
  sum=a+b;
  printf("the sum of %d and %d is %d",a,b,sum);
  return 0;
program 2
#include <stdio.h>
int main()
{int a=2,b=4,sub;
  sub=a-b;
  printf("the subtraction of %d and %d is %d",a,b,sub);
  return 0;
```

```
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}
 program 3
#include <stdio.h>
int main()
{int a=2,b=4,mul;
  mul=a*b;
  printf("the multiplication of %d and %d is %d",a,b,mul);
  return 0;
}
program 4
#include <stdio.h>
int main()
{int a=4,b=2,div;
  div=a/b;
  printf("the divide of %d and %d is %d",a,b,div);
  return 0;
}
```

program 5

```
#include <stdio.h>
int main()
{float a=4,b=2,sum;
  sum=a+b;
  printf("the sum of %f and %f is %f",a,b,sum);
  return 0;
}
program 6
#include <stdio.h>
int main()
{float a=4,b=2,sub;
  sub=a-b;
  printf("the sub of %f and %f is %f",a,b,sub);
  return 0;
}
program 7
#include <stdio.h>
int main()
{float a=4,b=2,multiplication;
```

```
multiplication=a*b;
  printf("the multiplication of %f and %f is %f",a,b,multiplication);
  return 0;
}
program 8
#include <stdio.h>
int main()
{float a=4,b=2,div;
  div=a/b;
  printf("the divide of %f and %f is %f",a,b,div);
  return 0;
program 9
#include <stdio.h>
int main()
{int a,b,sum;
printf("Enter the value of a -: ");
scanf("%d",&a);
printf("Enter the value of b -: ");
scanf("%d",&b);
```

```
sum=a+b;
  printf("the sum of %d and %d is %d",a,b,sum);
  return 0;
}
program 10
#include <stdio.h>
int main()
{int a,b,sub;
printf("Enter the value of a -: ");
scanf("%d",&a);
printf("Enter the value of b -: ");
scanf("%d",&b);
  sub=a-b;
  printf("the sub of %d and %d is %d",a,b,sub);
  return 0;
}
program 11
#include <stdio.h>
int main()
{int a,b,mul;
printf("Enter the value of a -: ");
scanf("%d",&a);
```

```
printf("Enter the value of b -: ");
scanf("%d",&b);
  mul=a*b;
  printf("the multipliction of %d and %d is %d",a,b,mul);
  return 0;
}
program 12
#include <stdio.h>
int main()
{int a,b,div;
printf("Enter the value of a -: ");
scanf("%d",&a);
printf("Enter the value of b -: ");
scanf("%d",&b);
  div=a/b;
  printf("the divide of %d and %d is %d",a,b,div);
  return 0;
}
program 13
#include <stdio.h>
int main()
{float a,b,sum;
```

```
printf("Enter the value of a -: ");
scanf("%f",&a);
printf("Enter the value of b -: ");
scanf("%f",&b);
  sum=a+b;
  printf("the sum of %f and %f is %0.1f",a,b,sum);
  return 0;
}
program 14
#include <stdio.h>
int main()
{float a,b,sub;
printf("Enter the value of a -: ");
scanf("%f",&a);
printf("Enter the value of b -: ");
scanf("%f",&b);
  sub=a-b;
  printf("the sub of %f and %f is %0.1f",a,b,sub);
  return 0;
}
program 15
#include <stdio.h>
```

```
int main()
{float a,b,mul;
printf("Enter the value of a -: ");
scanf("%f",&a);
printf("Enter the value of b -: ");
scanf("%f",&b);
  mul=a*b;
  printf("the multipliction of %f and %f %0.1f",a,b,mul);
  return 0;
}
program 16
#include <stdio.h>
int main()
{float a,b;
float div;
printf("Enter the value of a -: ");
scanf("%f",&a);
printf("Enter the value of b -: ");
scanf("%f",&b);
  div=a/b;
  printf("the divide of %0.2f and %0.2f is %0.1f",a,b,div);
  return 0;
}
```

```
program 17
#include <stdio.h>
int main()
{
  printf("Hello World");
  return 0;
program 18
#include <stdio.h>
//to find area of circle
int main()
{float r,area;
printf("enter the radii of circle:-");
scanf("%f",&r);
area=3.14*r*r;
printf("the area of circle with radius %0.2f is :- %0.2f",r,area);
}
program 19
#include <stdio.h>
```

```
//to find area of cylinder
int main()
{float r,h,area;
printf("enter the radii of cylinder:-");
scanf("%f",&r);
printf("enter the hieght of cylinder:-");
scanf("%f",&h);
area = 2*3.14*r*(r+h);
printf("the area of cylinder with radius %0.2f and hieght %0.3f is :- %0.2f",r,h,area);
}
program 20
#include <stdio.h>
//to find volume of cylinder
int main()
{float r,h,volume;
printf("enter the radii of cylinder:-");
scanf("%f",&r);
printf("enter the hieght of cylinder:-");
scanf("%f",&h);
volume = 3.14*r*r*h;
printf("the volume of cylinder with radius %0.2f and hieght %0.3f is :- %0.2f",r,h,volume);
}
```

```
program 21
#include <stdio.h>
//to find area of rectangle
int main()
{float L,B,area;
printf("enter the the value of lenght of recatngle:-");
scanf("%f",&L);
printf("enter the vlue of breadth of rectangle:-");
scanf("%f",&B);
area=L*B;
printf("the area of raectangle with lenghth %0.2f and breadth %0.3f is :- %0.2f",L,B,area);
}
program 22
#include <stdio.h>
//to find perimeter of rectangle
int main()
{float L,B,perimeter;
printf("enter the value of lenght of recatngle:-");
scanf("%f",&L);
printf("enter the value of breadth of rectangle:-");
scanf("%f",&B);
perimeter=2*(L+B);
```

```
printf("the perimeter of raectangle with lenghth %0.2f and breadth %0.3f is :- %0.2f",L,B,perimeter);
}
program 23
#include <stdio.h>
//to convert centimeters into meters
int main()
{float a,m;
printf("enter the value of a in centimeters:-");
scanf("%f",&a);
m=a/100;
printf("the value of avriable a in cm is :- %0.2f and in meter is %0.2f",a,m);
}
program 24
#include <stdio.h>
//to convert kg into gm
int main()
{float a,kg;
printf("enter the value of a in kg:-");
scanf("%f",&a);
kg=a*1000;
```

```
printf("the value of avriable a in cm is :- %0.2f and in meter is %0.2f",a,kg);
}
#include <stdio.h>
int main()
int age;
float h,w;
printf("enter your age;-");
scanf("%d",&age);
if(age>18)
{
printf("you are eligible for ncc");
}
  return 0;
}
program 2
#include <stdio.h>
int main()
{
int age;
```

```
float h,w;
printf("enter your age:-");
scanf("%d",&age);
if(age>18)
{
printf("you are eligible for ncc");
}
else
printf("you are not eligible");
}
  return 0;
}
program 3
int main()
int age;
float h,w;
printf("enter your age:-");
scanf("%d",&age);
if(age>=18&&age<=35)
printf("you are eligible for ncc");
}
else if(age>35 && age<=45)
```

```
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```

```
{
 printf("you are eligible for ncc office");
}
else
{
printf("you are not eligible");
}
  return 0;
program 4
#include <stdio.h>
int main()
int age;
float h,w;
printf("enter your age:-");
scanf("%d",&age);
if(age>=18&&age<=35)
{printf("enter your hieght:-");
scanf("%f",&h);
printf("enter your wieght:-");
scanf("%f",&w);
if (h>=5.5,w<55)
```

```
{printf("you are eligible for ncc");
}
else
{printf("not eligible due to wieght and hieght ");
}
}
else if(age>35 && age<=45)
{
 printf("you are eligible for ncc office");
}
else
{
printf("you are not eligible");
}
  return 0;
program 5
#include <stdio.h>
int main ()
{float a,b;
printf("enter the first number");
scanf("%f",&a);
printf("enter the second number");
```

```
scanf("%f",&b);
if(a>b)
  printf("%f is grtr than %f",a,b);
}
else if(a<b)
{
  printf("%f is greater than %f",b,a);
}
else
{
  printf("%f is equal to %f",a,b);
}
 return 0;
}
#include <stdio.h>
int main ()
{float a,b,c;
printf("enter the first number");
scanf("%f",&a);
printf("enter the second number");
scanf("%f",&b);
printf("enter the third number");
scanf("%f",&c);
```

```
if(a>blla>c)
  printf("%f is grtr than %fand %f",a,b,c);
}
else if(b>allb>c)
{
  printf("%f is greater than %fand %f",b,a,c);
}
else if(c>allc>b)
{
  printf("%f is greater than %f and %f",c,a,b);
}
else
{
  printf("%f,%f,%f are equal in values",a,b,c);
}
 return 0;
}
#include <stdio.h>
int main ()
{float a;
printf("enter the number");
scanf("%f",&a);
if(a>0)
{
```

```
printf("%f is positive",a);
}
else if(a<0)
{
  printf("%f is negative",a);
}
else
{
  printf("%f is zero",a);
}
 return 0;
}
#include <stdio.h>
int main ()
{float a,b;
printf("enter the number");
scanf("%f",&a);
if(a\%5==0||a\%11==0)
{
  printf("%f is divisible by 5 and 11",a);
}
else
{
```

```
printf("%f is not divisible by 5 and 11",a);
}
return 0;
}
#include <stdio.h>
int main ()
{float a;
printf("enter the number");
scanf("%f",&a);
if(a%2==0)
  printf("%f is even",a);
}
else
{
  printf("%f is odd",a);
}
return 0;
}
```

```
int main ()
{float a;
printf("enter the year");
scanf("%f",&a);
if(a%4==0)
{
  printf("%f is leap year",a);
}
else
{
  printf("%f is not aleap year",a);
}
return 0;
}
#include <stdio.h>
int main ()
{float a;
printf("enter the character");
scanf("%f",&a);
if(a<='a'lla>='z')
{
  printf("%f is even",a);
```

```
Vansh section k
}
else
  printf("%f is odd",a);
}
return 0;
}
#include <stdio.h>
int main()
{int n,temp,sum=0,rem;
printf("input the no");
scanf("%d",&n);
temp=n;
while(n>0)
{rem=n%10;
sum=(sum*10)+rem;
n=n/10;
}
if (temp==sum)
{printf("the give no is palindrome number");
}
else
{printf("the given no is not a palindrome number");
```

}

```
return 0;
}
//to print the no from 1 to 10
#include <stdio.h>
int main()
{ int i;
for(i=0;i<=10;i++)
{
  printf("the value of i is %d n",i);
}
  return 0;
}
#include <stdio.h>
int main()
{ int i;
for(i=0;i<=10;++i)
{
  printf("the value of i is %d n",i);
}
  return 0;
```

```
Vansh section k
}
int main()
{ int i;
for(i=20;i>=11;i--)
{
  printf("the value of i is %d n",i);
  return 0;
}
int main()
{ int i;
for(i=20;i>=11;--i)
{
  printf("the value of i is %d \n",i);
}
  return 0;
// Print numbers from 7to10
```

#include <stdio.h>

int main()

```
Vansh section k
{
 int i = 7;
 while (i <= 10) {
  printf("%d\n", i);
  ++i;
 }
return 0;
}
#include <stdio.h>
int main()
{int i;
i=0;
do{
  printf("print th vlaue of %d \n",i);
  i++;
}while(i<=10)
  return 0;
}
#include <stdio.h>
```

int main()

```
{int s,k,rows;
printf("enter the value of rows:");
scanf("%d",&rows);
for(s=1;s<=rows;s++)
{
  for(k=1;k<=s;k++)
  {printf("0");
  printf("\n");
}
  return 0;
#include <stdio.h>
int main()
{int i;
int values[10];
printf("enter values \n");
for(i=0;i<10;i++)
{scanf("%d",&values[i]);
printf("entered values are");
for(i=0;i<10;i++)
{printf("%d\n",values[i]);
```

```
} return 0;
```

}

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string

```
#include <stdio.h>
#include<string.h>
int main()
{char str[]="glauniversity";
int i=0;
```

```
while(str[i]!='\0')
\{i=i+1;
printf("the lenghth of string is %d",i);
  return 0;
}
#include <stdio.h>
#include<string.h>
int main()
{char str[10];
printf("enter the vslue of string");
scanf("%s",str);
int i=strlen(str);
printf("the lenghth of string is %d",i);
  return 0;
}
#include <stdio.h>
int compare(char a[],char b[]);
int main()
{char str1[10]="firozabad";
char str2[10]="firozabad";
int z=compare(str1,str2);
if(z==0)
```

```
Vansh section k
```

```
{
printf("two string are equal");
}
else
printf("two strings are not equal");
}
}
int compare(char a[],char b[])
{ int i=0,x;
while(a[i]!='\0'\&\&b[i]!='\0')
\{if(a[i]==b[i])
{x=0;}
i++;
}
else
{x=1;}
}
return x;
error check//
```

pointer

```
#include<stdio.h>
int main()
{int age=18;
printf("%p\n",&age);
int *ptr=&age;
printf("%p\n",ptr);
printf("%d",*ptr);
}
```

FUNCTION

To add to integer using a function of add

```
#include<stdio.h>
int sum(int a, int b);
int main()
{
  int a,b;
  printf("enter the value of two integer");
  scanf("%d %d",&a,&b);
  int x=sum(a,b);
  printf("%d",x);
}
int sum(int a, int b)
```

```
Vansh section k

{
int c=a+b;
return c;
}

To find of cube of any intger by using a function

#include<stdio.h>
int cube(int a);
int main()
{
. . .
```

```
int cube(int a);
int main()
{
  int a;
printf("enter the value of integer");
scanf("%d",&a);
int x=cube(a);
printf(" the cube of %d is %d",a,x);
}
int cube(int a)
{ return a*a*a;
}
To check wether a number is even or odd
```

#include<stdio.h>

int eo(int a);

int main()

```
Vansh section k
```

```
{
int a;
printf("enter the value of integer");
scanf("%d",&a);
int x=eo(a);
if(x!=0){
printf("even");
}
else{printf("odd");}
}
int eo(int a)
\{ int c=1,d=0; 
if(a%2==0)
{
return c;
}
else
{return d;
}
}
```

To find the area of a circle and diameter of a circle and circumference using a function

```
#include<stdio.h>
float dia(float a);
float area(float b);
```

```
float cir(float c);
float main()
{
float r,a,b,c;
printf("enter the value radii ");
scanf("%f",&r);
float f=dia(r);
float g=area(r);
float h=cir(r);
printf("area is %f \n",g);
printf("dia is %f \n",f);
printf("cir is %f \n",h);
}
float dia(float a)
{float v=a*2;
return v;
}
float area(float b)
{ return 3.14*b*b;
}
float cir(float c)
{return 2*3.14*c;
}
```

To find the grretest between two integer

```
#include<stdio.h>
int max(int a, int b);
int main()
{
int a,b;
printf("enter the value of two integer n");
scanf("%d %d",&a,&b);
int x=max(a,b);
if(x==0)
{
printf("%d is greater than %d",a,b);
}
else{
("%d is greater than %d",b,a);
}
int max(int a, int b)
{int c;
if(a>b)
\{c=0;
}
else{c=1;
}
return c;
}
```

printf

To check whether a no is prime or not

```
#include<stdio.h>
int prime(int a);
int armstrong(int b);
int perfect(int c);
int main()
{
int a;
int x=prime(a);
if(x==0){
printf("prime");
else{printf("not a prime no");}
}
int prime(int a)
{int no,count=0,c=0,rem;
printf("enter the value of integer");
scanf("%d",&no);
for(int i=1;i<=no;i++)
{
rem=no%i;
if(rem==0)
{count++;
}
```

```
if(count==2)
{return c;
}
}
```

2 D array

```
#include <stdio.h>
```

```
int main()
{int a[2][4],r,c;
printf("enter r");
scanf("%d",&r);
printf("enter c");
scanf("%d",&c);
printf("enter the value of array are");
for(int i=0;i<r;i++)
{for(int j=0;j<c;j++)
{scanf("%d",&a[i][j]);
}
printf("the value of array are");</pre>
```

```
Vansh section k
```

```
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
printf("\n");
  return 0;
}
sum of two array by definng max max size of two arrays
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],r,c,b[MAX_ROWS][MAX_COLS];
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
```

```
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
printf("\n");
}
printf("enter the value of array b");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&b[i][j]);
}
printf("the value of array b are");
for(int i=0;i<r;i++)
{for(int j=0;j<c;j++)
{printf("%d",b[i][j]);
}
printf("\n");
}
printf("the sum of two array a and b are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]+b[i][j]);
}
```

```
printf("\n");
}
  return 0;
}
differense of two array bydefining maxmum size
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],r,c,b[MAX_ROWS][MAX_COLS];
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
```

```
printf("\n");
printf("enter the value of array b");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&b[i][j]);
}
}
printf("the value of array b are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",b[i][j]);
}
printf("\n");
}
printf("the difference of two array a and b are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]-b[i][j]);
}
printf("\n");
}
  return 0;
}
```

sorting of array row wise in ascending

```
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],b[MAX_ROWS][MAX_COLS],r,c;
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
printf("\n");
}
for (int i=0;i<r;++i)
{
```

```
for (int j=0; j< c; ++j)
{
for (int k=(j+1);k<c;++k)
{
if (a[i][j]>a[i][k])
{a[MAX_ROWS][MAX_COLS]=a[i][j];
a[i][j]=a[i][k];
a[i][k] = a[MAX_ROWS][MAX_COLS];
}
}
}
printf("after sorting row wise");
for (int i=0;i<r;++i)
{
for (int j=0; j< c; ++j)
{
printf (" %d",a[i][j]);
}
printf ("\n");
}
}
sorting of array row wise in descending
#include <stdio.h>
#define MAX_ROWS 100
```

```
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],b[MAX_ROWS][MAX_COLS],r,c;
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
printf("\n");
}
for (int i=0;i<r;++i)
{
for (int j=0; j< c; ++j)
{
for (int k=(j+1);k< c;++k)
{
```

```
\text{if } (a[i][j] < a[i][k]) \\
{a[MAX_ROWS][MAX_COLS]=a[i][j];
a[i][j]=a[i][k];
a[i][k] = a[MAX_ROWS][MAX_COLS];
}
}
}
}
printf("after sorting row wise");
for (int i=0;i<r;++i)
{
for (int j=0; j< c; ++j)
printf (" %d",a[i][j]);
}
printf ("\n");
}
}
sorting column wise decsending
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],b[MAX_ROWS][MAX_COLS],r,c;
```

```
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{printf("%d",a[i][j]);
}
printf("\n");
}
for (int j=0; j< c; ++j)
for (int i=0;i<r;++i)
{
for (int k=i+1;k<r;++k)
\text{if } (a[i][j] < a[k][j]) \\
{
a[MAX_ROWS][MAX_COLS] = a[i][j];
```

```
a[i][j] = a[k][j];
a[k][j] = a[MAX_ROWS][MAX_COLS];
}
}
}
for (int i=0;i<r;++i)
for (int j=0; j< c; ++j)
{
printf (" %d",a[i][j]);
}
printf ("\n");
}
}
sorting column wise ascending
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
{int a[MAX_ROWS][MAX_COLS],b[MAX_ROWS][MAX_COLS],r,c;
printf("enter r ");
scanf("%d",&r);
printf("enter c ");
```

```
scanf("%d",&c);
printf("enter the value of array a are");
for(int i=0;i<r;i++)
\{for(int j=0; j< c; j++)\}
{scanf("%d",&a[i][j]);
}
}
printf("the value of array a are ");
for(int i=0;i<r;i++)
{for(int j=0;j<c;j++)
{printf("%d",a[i][j]);
}
printf("\n");
}
for (int j=0; j< c; ++j)
{
for (int i=0;i<r;++i)
{
for (int k=i+1;k<r;++k)
\text{if } (a[i][j] > a[k][j]) \\
{
a[MAX_ROWS][MAX_COLS] = a[i][j];
a[i][j] = a[k][j];
a[k][j] = a[MAX_ROWS][MAX_COLS];
}
```

```
Vansh section k
```

```
}
}
for (int i=0;i<r;++i)
{
for (int j=0; j< c; ++j)
{
printf (" %d",a[i][j]);
printf ("\n");
}
}
multiplication of two matrices
#include <stdio.h>
#define MAX_ROWS 100
#define MAX_COLS 100
int main()
r1, r2, c1, c2, r, c, a[MAX\_ROWS][MAX\_COLS], i, j, k, sum = 0, b[MAX\_ROWS][MAX\_COLS], mul[MAX\_ROWS][MAX\_COLS], mul[MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX\_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS][MAX_ROWS]
WS][MAX_COLS];
printf("enter value of row for a matrices ");
scanf("%d",&r1);
printf("enter value of column for a matrices ");
scanf("%d",&c1);
printf("enter value of row for b matrices ");
```

```
scanf("%d",&r2);
printf("enter value of column for b matrices ");
scanf("%d",&c2);
printf("enter the value of array a are");
for(i=0;i<r1;i++)
\{for(j=0;j<c1;j++)\}
{scanf("%d",&a[i][j]);
}
printf("the value of array a are ");
for(i=0;i<r1;i++)
{for(j=0;j<c1;j++)
{printf("%d",a[i][j]);
}
printf("\n");
}
printf("enter the value of array b");
for(i=0;i<r2;i++)
{for(j=0;j<c2;j++)
{scanf("%d",&b[i][j]);
}
}
printf("the value of array b are");
for(i=0;i<r2;i++)
\{for(j=0; j< c2; j++)\}
{printf("%d",b[i][j]);
```

```
}
printf("\n");
}
if(r1==c2)
{
r=r1;
c=c2;
printf("the product of two array a and b are");
for(i=0;i<r;i++)
{for(j=0;j<c;j++)
{for(k=0;k<r;k++)
sum=sum+(a[i][k]*b[k][j]);
}
mul[i][j]=sum;
sum=0;
}
}
printf("the multiplication of a and b are");
for(i=0;i<r;i++)
{for(j=0;j<c;j++)
{printf("%d",mul[i][j]);
}
printf("\n");
}
}
else
```

```
{printf("multiplication is not paossible of these two matrices");
}
```