

```
#addition of two numbers#include<stdio.h>
void main()
{
int a,b,c;
printf("enter a,b values");
scanf("%d%d",&a,&b);
c=a+b;
printf("the value of c=%d",c);
}
```

```
#include<stdio.h>
void main()
{
int age;
printf("enter age");
scanf("%d",&age);
if (age>=18)
printf("eligible for vote");
else
printf("not eligible");
printf("\n");
}
```

```
#include<stdio.h>
void main()
{
int l,b,area,perimeter;
printf("enter l,b");
scanf("%d%d",&l,&b);
area=l*b;
perimeter=2*(l+b);
printf("%d%d",area,perimeter);
}
```

```
#include<stdio.h>
void main()
{
int a,b,c;
printf("enter a,b");
scanf("%d%d",&a,&b);
c=a/b;
printf("the value of c is %d",c);
}
```

```
#include<stdio.h>
void main()
{
int n,last_digit;
printf("enter n");
scanf("%d",&n);
last_digit=n%10;
printf("%d",last_digit);
}
```

```
#include<stdio.h>
void main()
{
int n,last_two_digits;
printf("enter n");
scanf("%d",&n);
last_two_digits=n%100;
printf("%d",last_two_digits);
}
```

```
#include<stdio.h>
void main()
{
int n;
printf("enter n");
scanf("%d",&n);
if (n%2==0)
printf("n is even");
else
printf("n is odd");
}
```

```
#include<stdio.h>
void main()
{
char c,s;
printf("enter c");
scanf("%c",&c);
s=c-32;
printf("the value os s=%c",s);
}
```

```

#include<stdio.h>
void main()
{
int a,b,c;
printf("enter a,b");
scanf("%d%d",&a,&b);
c=a%b;
printf("the value of c is %d",c);
}
#include<stdio.h>
void main()
{
int a,b,c,d;
printf("enter a");
scanf("%d",&a);
b=a++;
c=++b;
d=c++;
a=++d;
printf("%d%d%d%d",b,c,d,a);
}
#include<stdio.h>
void main()
{
int n,remove_last_digit;
printf("enter n");
scanf("%d",&n);
remove_last_digit=n/10;
printf("%d",remove_last_digit);
}
#include<stdio.h>
void main()
{
int a,b,c;
printf("enter a,b");
scanf("%d%d",&a,&b);
c=a;
a=b;
b=c;
printf("%d%d",a,b);
}
#include<stdio.h>
void main()
{

```

```

int a,b;
printf("enter a,b");
scanf("%d%d",&a,&b);
a=a+b;
b=a-b;
a=a-b;
printf("%d%d",a,b);
}
#include<stdio.h>
void main()
{
float f,c;
printf("enter f");
scanf("%f",&f);
c=0.55*(f-32);
printf(" %f",c);
}
#include<stdio.h>
void main ()
{
int a[10],max,min,i=0;
printf("enter the elements of array\n");
for(i=0;i<10;i++)
scanf("%d",&a[i]);
min=a[0];
max=a[0];
for(i=0;i<10;i++)
{
if(min<a[i])
min=a[i];
if(max>a[i])
max=a[i];
}
printf("the maximum %d\n",max);
printf("the minimum %d\n",min);
}
#include<stdio.h>
void main()
{
int marks[100],i,n,sum=0;
float avg;
printf("enter n value\n");
scanf("%d",&n);
for(i=0;i<n;i++)

```

```

    {
        printf("enter marks");
        scanf("%d",&marks[i]);
        sum=sum+marks[i];
    }
    avg=(sum/n);
    printf("\n avg marks= %f",avg);
}
#include<stdio.h>
void main()
{
    int n,a[10],i,esum=0,osum=0;
    printf("enter n \n");
    scanf("%d",&n);
    printf("enter the elements of array \n");
    for (i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    for (i=0;i<n;i++)
    {
        if(a[i]%2==0)
            esum=esum+a[i];
        else
            osum=osum+a[i];
    }
    printf("even sum=%d",esum);
    printf("odd sum=%d",osum);
}
include<stdio.h>
void main()
{
    int n,a[n],i;
    printf("enter number of elements\n");
    scanf("%d",&n);
    printf("the elements are \n");
    for (i=0;i<n;i++)
        scanf("%d",&a[i]);
    printf("the entered elements are: \n");
    for(i=0;i<n;i++)
        printf("%d",a[i]);
    printf("the elements in reverse order\n");
    for(i=n-1;i>=0;i--)
        printf("%d",a[i]);
}

```

```

}
#include<stdio.h>
void main()
{
int n,a[10],i,temp=0,search;
printf("enter the number of elemnts\n");
scanf("%d",&n);
printf("the elements are:");
for(i=0;i<n;i++)
scanf("%d",&a[i]);
printf("enter the element to search\n");
scanf("%d",&search);
for(i=0;i<n;i++)
{
if(a[i]==search)
temp=1;
}
if(temp==1)
printf("element found=%d",search);
else
printf("element not found");
}

```

```

#include<stdio.h>
void main()
{
int marks[100],i,n,sum=0;
float avg;
printf("enter n value\n");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("enter marks");
scanf("%d",&marks[i]);
sum=sum+marks[i];
}
avg=(sum/n);
printf("\n avg marks= %f",avg);
}

```

```

#include<stdio.h>
void main()
{
int a[10],i,j,n=10;
printf("enter elements of array \n");
for(i=0;i<n;i++)

```

```

{
    scanf("%d",&a[i]);
}
printf("enter the position of deletion\n");
scanf("%d",&j);
printf("deleted elements of %d\n",a[j-1]);
    for(i=j-1;j<n-1;i++)
        a[i]=a[i+1];
printf("the array is:\n");
for(i=0;i<n-1;i++)
printf("a[%d]=%d",i,a[i]);
}

```

```

#include<stdio.h>
void main()
{
int a[50][50],b[50][50],c[50][50],i,j,r1,r2,c1,c2;
printf("enter number of rows and columns of m1");
scanf("%d%d",&r1,&c1);
printf("enter the number of rows and columns of m2");
scanf("%d%d",&r2,&c2);
if(r1==r2 &&c1==c2)
{
    printf("enter the elements of m1");
    for(i=0;i<r1;i++)
    {
        for(j=0;j<c1;j++)
        {
            scanf("%d",&a[i][j]);
        }
    }
    printf("enter the elements of m2");
    for(i=0;i<r2;i++)
    {
        for(j=0;j<c2;j++)
        {
            scanf("%d",&b[i][j]);
        }
    }
    for(i=0;i<r1;i++)
    {
        for(j=0;j<c1;j++)
        {

```

```

        c[i][j]=a[i][j]+b[i][j];
    }
}
printf("the resultant matrix is \n");
for(i=0;i<r1;i++)
{
    for (j=0;j<c1;j++)
    {
        printf("%d\t",c[i][j]);
    }
    printf("\n");
}
}
else
{
    printf("matrix addition is not possible");
}
}

```

```

#include<stdio.h>
void main()
{
    int a[10][10],b[10][10],c[10][10],i,j,k,r1,r2,c1,c2;
    printf("enter no.of rows and columns of m1");
    scanf("%d%d",&r1,&c1);
    printf("enter no.of rows and columns of m2");
    scanf("%d%d",&r2,&c2);
    if(r1!=c2)
    {
        printf("matrix multiplication is not possible");
    }
    else
    {
        printf("enter the elements of m1");
        for (i=0;i<r1;i++)
        {
            for(j=0;j<c1;j++)
            {
                scanf("%d",&a[i][j]);
            }
        }
        printf("enter the elements of m2");
        for (i=0;i<r2;i++)

```



```

    {
        for(j=0;j<c2;j++)
        {
            scanf("%d",&b[i][j]);
        }
    }
    printf("matrix multiplication is \n");
    for(i=0;i<r1;i++)
    {
        for(j=0;j<c2;j++)
        {
            c[i][j]=0;
        }
        for(k=0;k<c1;k++)
            c[i][j]=c[i][j]+a[i][k]*b[k][j];
    }
    for(i=0;i<r1;i++)
    for(j=0;j<c2;j++)
    printf("%d",c[i][j]);
}
printf("\n");
}

```

```

#include<stdio.h>
void main()
{
    int size,i,largest;
    printf("\n enter the size of array");
    scanf("%d",&size);
    int array[size];
    printf("\n enter %d elements of array",size);
    for(i=0;i<size;i++)
    {
        scanf("%d",&array[i]);
    }
    for(i=0;i<size;i++)
    {
        if (largest<array[i])
            largest=array[i];
    }
    printf("\n %d",largest);
}

```

```
#include<stdio.h>
int Mul(int a,int b);
main()
{
    int a=10,b=5,m;
    m=Mul(a,b);
    printf("%d",m);
}
```

```
int Mul(int x,int y)
{
    int res;
    res=x*y;
    return(res);
}
```

```
#include<stdio.h>
void add();
void main();
{
    add();
}
```

```
void add()
{
    int x=10,y=20;
    int z=x+y;
    printf("%d",z);
}
```

```
#include<stdio.h>
void main()
{
    int j,i;
    for(j=5;j<=10;j++)
    {
        for (i=1;i<=10;i++)
        {
            printf("%d\t",j*i);
        }
        printf("\n");
    }
}
```

```

#include<stdio.h>
void main()
{
int i,j,terms,n;
printf("enter no.terms");
scanf("%d",&terms);
printf("enter n");
scanf("%d",&n);
for(i=1;i<terms;i++)
{
for(j=1;j<terms;j++)
printf("%d*%d=%d\n",n,j,n*j);
} n++;
printf("\n");
}

```

```

#include<stdio.h>
void main()
{
int a,b,r,sum=0,i;
printf("enter a,b");
scanf("%d%d",&a,&b);
for (i=a;i<=b;i++)
{
while(i>0)
{
r=a%10;
sum=sum+r;
a=a/10;
}
}
printf("%d",sum);
}

```

```

#include<stdio.h>
void main()
{
int i=o,j=o,n,terms;
printf("enter no.of terms");
scanf("%d",&terms);
printf("enter the number:");
scanf("%d",&n);

```

```

for(i=0,i<=terms;j++)
{
    for(j=0,j<=terms;j++)
    {
        printf("%d*%d=%d",n,i,n*i);
    }
}

```

```

#include<stdio.h>
void main()
{
    float r, area,circumference;
    printf("enter r");
    scanf("%f",&r);
    area=3.14rr;
    circumference=23.14r;
    printf("%f%f",area,circumference);
}

```

```

#include<stdio.h>
void main()
{
    float r, area,circumference;
    printf("enter r");
    scanf("%f",&r);
    area=3.14rr;
    circumference=23.14r;
    printf("%f%f",area,circumference);
}

```

```

#include<stdio.h>
void main()
{
    char a;
    int b;
    printf("enter char");
    scanf("%c",&a);
    b=a;
    printf("%d",b);
}

```

```

#include<stdio.h>
void main ()
{
int prev_read,pres_read;
float amount, units,price;
printf("enter prev_read,pres_read");
scanf("%d%d",&prev_read,&pres_read);
units=pres_read-prev_read;
amount=units*price;
printf("%f\n%f\n",units,amount);
}

```

```

#include<stdio.h>
void main()
{
int a,b,result;
printf("enter a,b");
scanf("%d%d",&a,&b);
result=(a==b);
printf("%d\n",result);
result=(a&b);
printf("%d\n",result);
result=(a|b);
printf("%d\n",result);
result=(a<<b);
printf("%d\n",result);
}

```

```

#include<stdio.h>
void main()
{
int n,p;
float disc,original,total;
printf("enter n,p");
scanf("%d%d",&n,&p);
total=n*p;
disc=total*0.2;
original=total-disc;
printf("%f\n%f\n%f\n",total,disc,original);
}

```

```

#include<stdio.h>
void main()
{
int p,n;
float r, si;
printf("enter p, n, r");
scanf("%d%d%f",&p,&n,&r);
si=pnr/100;
printf("%f",si);
}

```

```

#include<stdio.h>
void main()
{
int km;
float m,cm;
printf("enter km");
scanf("%d",&km);
m=km*1000;
cm=m*100;
printf("%f\n%f\n",m,cm);}

```

```

#include<stdio.h>
void main()
{
int eng,mat,phy,chem,total;
float avg,per;
printf("enter four subjects");
scanf("%d%d%d%d",&eng,&mat,&phy,&chem);
total=eng+mat+phy+chem;
avg=total/4;
per=total/400;
printf("%d\n%f\n%f\n",total,avg,per);
}

```

```

#include<stdio.h>
#include<string.h>
void main()
{
char str[20];
int n;
printf("enter a string");
scanf("%c",&str[20]);

```

```
printf("length of string str when max len is 30=%d",strlen(str,30));  
printf("length of string str when max len is 20=%d",strlen(str,10));  
}
```

```
#include<stdio.h>  
#include<string.h>  
void main()  
{  
    char str[10];  
    int n;  
    printf("enter a string");  
    scanf("%c",&str[10]);  
    n=strlen(str);  
    printf("%d",n);  
}
```

```
#include<stdio.h>  
void add(int x,int y);  
void main()  
{  
    int a,b;  
    printf("enter a,b");  
    scanf("%d,%d",&a,&b);  
    add(a,b);  
}  
void add(int x,int y)  
{  
    int z=x+y;  
    printf("%d",z);  
}
```

```
#include<stdio.h>  
int add();  
void main()  
{  
    int result=add();  
    printf("%d",result);  
}  
int add()  
{  
    int x=20,y=30;
```

```
int z=x+y;
return z;
}
```

```
#include<stdio.h>
void sort(int m,int x[]);
void main()
{
    int i;
    int marks[5]={40,56,45,72,26};
    printf("marks before sorting");
    for(i=0;i<5;i++)
        printf("%4d",marks[i]);
    printf("\n\n");
    sort(5,marks);
    printf("marks after sorting");
    for(i=0;i<5;i++)
        printf("%4d",marks[i]);
    printf("\n");
}
void sort(int m,int x[])
{
    int i,j,t;
    for(i=1;i<=m-1;i++)
        for(j=1;j<=m-1;j++)
            if(x[j-1]>=x[j])
            {
                t=x[j-1];
                x[j-1]=x[j];
                x[j]=t;
            }
}
#include<stdio.h>
int prime(int a,int b);
void main()
{
    int a,b;
    printf("enter a, b valus");
    scanf("%d,%d",&a,&b);
    prime(a,b);
}
int prime(int n1,int n2)
{
```



```

    int count=0,i,n;
    for(i=n1;i<=n2;i++)
    {
        if(n1%i==0)
            n1++;
    }
    if(count==2)
        printf("prime=%d",count);
    else
        printf("not a prime");
}
#include<stdio.h>
int mul(int a ,int b);
void main()
{
    int a,b,m;
    m=mul(a,b);
    printf("%d",m);
}
int mul(int x,int y)
{
    printf("enter x,y values");
    scanf("%d,%d",&x,&y);
    int res;
    res=x*y;
    return(res);
}
#include<stdio.h>
int bin(int x);
void main()
{
    int a,y;
    printf("enter a decimal number");
    scanf("%d",&a);
    y=bin(a);
    printf("%d",y);
}
int bin(int x)
{
    int bn=0,i=1,r;
    while(x>0)
    {
        r=x%2;
        x=x/2;
    }
}

```

```

        bn=bn+r*i;
        i=i*10;
    }
    return bn;
}
#include<stdio.h>
int gcd(int a,int b);
void main()
{
    int a,b;
    printf("enter a,b values");
    scanf("%d,%d",&a,&b);
    gcd(a,b);
}
int gcd(int x,int y)
{
    int r;
    while(y!=0)
    {
        r=x%y;
        x=y;
        y=r;
    }
    printf("%d",x);
}
#include<stdio.h>
int fact(int);
void main()
{
    int n,factorial;
    printf("enter a number");
    scanf("%d",&n);
    factorial=fact(n);
    printf("factoiral of a number(%d)=%d\n",n,factorial);
}
int fact(int n)
{
    int i,f=1;
    for(i=1;i<=n;i++)
    {
        f=f*i;
    }
    return f;
}

```

```
#include<stdio.h>
void main()
{
    char ch;
    FILE *fp;
    fp=fopen("a.txt","w");
    printf("enter char");
    while((ch=getchar())!=EOF)
        putc(ch,fp);
    fclose(fp);
}
```

```
#include<stdio.h>
void main()
{
    char ch;
    FILE *fp;
    fp=fopen("a.txt","r");
    printf("File contents are");
    while((ch=getc(fp))!=EOF)
        putchar(ch);
    fclose(fp);
}
```

```
#include<stdio.h>
void main()
{
    int id;
    char name[30];
    float sal;
    FILE *fp;
    fp=fopen("myfile.dat","w");
    printf("enter id");
    scanf("%d",&id);
    printf("enter name");
    scanf("%s",&name[30]);
    printf("enter salary");
    scanf("%f",&sal);
    fprintf(fp,"%d",id);
    fprintf(fp,"%s",name);
    fprintf(fp,"%f",sal);
    fclose(fp);
}
```

```
#include<stdio.h>
void main()
{
    int id;
    float sal;
    char name[30];
    FILE *fp;
    fp=fopen("myfile.dat","r");
    fscanf(fp,"%d",&id);
    fscanf(fp,"%s",&name[30]);
    fscanf(fp,"%f",&sal);
    printf("%d",id);
    printf("%s",name);
    printf("%f",sal);
    fclose(fp);
}
```

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

```
void main()
```

```
{
```

```
int n,i,flag=0,search=0,a[100];
```

```
printf("enter number of elements:");
```

```
scanf("%d",&n);
```

```
printf("enter thr elements:");
```

```
{
```

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

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

```
}
```

```
printf("enter num to search:");
```

```
scanf("%d",&search);
```

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

{

if(a[i]==search)

{

printf("elememtt is found:");

flag=1;

}

}

if(flag==0)

printf("the entered element is not found:"); }

#include<stdio.h>

void main()

{

struct std

{

int ld;

char name[20];

int m1;

int m2;

int m3;

int m4;
```

```
int m5;

};

struct std s1[100];

int n;

int i=0;

printf("enter num of stds:");

scanf("%d",&n);

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

{

printf("enter id:");

scanf("%d",&s1[i].ld);

printf("enter name:");

scanf("%s",&s1[i].name);

printf("enter m1:");

scanf("%d",&s1[i].m1);

printf("m2:");

scanf("%d",&s1[i].m2);

printf("m3:");

scanf("%d",&s1[i].m3);

printf("m4:");

scanf("%d",&s1[i].m4);
```

```

printf("m5:");

scanf("%d",&s1[i].ld);

}

printf("enter the student details:");

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

{

printf("%d",s1[i].ld);

printf("\n");

printf("%s",s1[i].name);

printf("\n");

float avg=((s1[i].m1+s1[i].m2+s1[i].m3+s1[i].m4+s1[i].m5)/5);

printf("the average marks:%f",avg);

printf("\n");

float total=(s1[i].m1+s1[i].m2+s1[i].m3+s1[i].m4+s1[i].m5);

printf("total marks:%f",total);

printf("\n");

}

```

"std.c" 51L, 858C

1,1

Top

cse@it:~/23wh1a05h8\$./a.out

enter num of stds:1

enter id:1345

enter name:pooja

enter m1:96

m2:95

m3:98

m4:94

m5:97

enter the student details:1345

pooja

the average marks:96.000000

total marks:480.00000