

```
1 //number series
2 #include<stdio.h>
3 int main()
4 {
5     int n;
6     printf("enter the range:");
7     scanf("%d", &n);
8     for(int i=1; i<=n; i++)
9     {
10        printf("%d ", i);
11    }
12 }
```

```
C:\Users\jagad\OneDrive\Documents\num ser.exe
enter the range:8
1 2 3 4 5 6 7 8
-----
Process exited after 1.884 seconds with ret
Press any key to continue . . .
```

```
//even number series
#include<stdio.h>
int main()
{
    int n;
    printf("enter the range of even");
    scanf("%d",&n);
    for(int i=1;i<=n;i++)
    {
        if(i%2==0)
            printf("%d ",i);
    }
}
```

C:\Users\jagad\OneDrive\Documents\eve.exe

enter the range of even10

2 4 6 8 10

Process exited after 2.082 seconds with return
Press any key to continue . . .

```
1 //odd num series
2 #include<stdio.h>
3 int main()
4 {
5     int n;
6     printf("enter the odd range ");
7     scanf("%d",&n);
8     for(int i=1;i<=n;i++)
9     {
10        if(i%2!=0)
11        {
12        }
13    }
```

C:\Users\jagad\OneDrive\Documents\odd nu

enter the odd range 10

1 3 5 7 9

Process exited after 3.632 seconds with exit code 0

```
1 //fabinocci  
2 #include<stdio.h>  
3 int main()  
4 {  
5     int n,n3=0,n1=1,n2=0;  
6     printf("enter the n :");  
7     scanf("%d",&n);  
8     printf("%d ",n2);  
9     for(int i=1;i<n;i++)  
10    {  
11        n3=n1+n2;  
12        printf(" %d ",n3);  
13        n1=n2;  
14        n2=n3;  
15    }  
16 }
```

C:\Users\jagad\OneDrive\Documents\fabric.exe

enter the n :7
0 1 1 2 3 5 8

Process exited after 1.894 seconds with return
Press any key to continue . . .

```
1 //sum  
2 #include<stdio.h>  
3 int main()  
4 {  
5     int n,sum=0;  
6     printf("enter the n:");  
7     scanf("%d",&n);  
8     for(int i=1;i<=n;i++)  
9     {  
10         sum=sum+i;  
11     }  
12     printf("%d",sum);  
13 }
```

C:\Users\jagad\OneDrive\Documents\sum.exe

```
enter the n:7  
28  
-----  
Process exited after 1.856 seconds with  
Press any key to continue . . .
```

```
1 // even or odd#include<stdio.h>
2 #include<stdio.h>
3 int main()
4 {
5     int n,sum=0;
6     scanf("%d",&n);
7     if(n%2==0)
8         printf("its a even number");
9     else
10        printf("its odd number");
11 }
```

C:\Users\jagad\OneDrive\Documents\foc even.exe

7
its odd number

```
1 //fac foc
2 #include<stdio.h>
3 int main()
4 {
5     int i,n,fact=1;
6     printf("enter the number:");
7     scanf("%d",&n);
8     for (i=1;i<=n;i++)
9     {
10         fact=fact*i;
11     }
12     printf("factorial=%d",fact);
13     return 0;
14 }
```

```
C:\Users\jagad\OneDrive\Documents\fatorial in foc.exe
enter the number:5
factorial=120
-----
Process exited after 2.434 seconds with return
Press any key to continue . . .
```

```
1 //armstrong
2 #include<stdio.h>
3 int main()
4 {
5     int num,rem,tot=0,temp;
6     printf("enter the number=");
7     scanf("%d",&num);
8     temp=num;
9     while(num>0){
10         rem=num%10;
11         tot+=(rem*rem*rem);
12         num=num/10;
13     }
14     if(temp==tot)
15         printf("This number is Armstrong number");
16     else
17         printf("This number is not Armstrong number");
18     return 0;
19 }
```

C:\Users\jagad\OneDrive\Documents\arm in foc.exe

enter the number=153
This number is Armstrong number

Process exited after 2.601 seconds with exit value 0

```
// sum of even numbers
#include <stdio.h>
int main()
{
    int i, n, sum=0;
    printf("Enter any number: ");
    scanf("%d", &n);
    for(i=2; i<=n; i+=2)
    {
        sum += i;
    }
    printf("Sum of all even numbers from 1 to %d: %d", n, sum);
    return 0;
}
```

C:\Users\swath\OneDrive\Documents\sum of even numbers.exe

Debug amstrong checking.c fact.c [*] sum of even numbers.c summingup.c sum and average.c Untitled3

```
1 //sum of cube of n numbers
2 #include<stdio.h>
3 int main()
4 {
5     int n,sum;
6     printf("enter the value of n:");
7     scanf("%d",&n);
8     sum=(n*n)*((n+1)*(n+1))/4;
9     printf("sum of square of %d natural numbers=%d",n,sum)
10 }
```

C:\Users\swath\OneDrive\Documents\cube numbers.exe

```
enter the value of n:4
sum of square of 4 natural numbers=100
-----
Process exited after 5.306 seconds with return value 38
Press any key to continue . . .
```

```
//swapping
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("enter the number :");
    scanf("%d",&a);
    printf("enter the number :");
    scanf("%d",&b);
    printf("before swapping ->value of a:%d and value of b:%d\n",a,b);
    c=a;
    a=b;
    b=c;
    printf("after swapping ->value of a:%d and value of b:%d\n",a,b);
}
```

C:\Users\jagad\OneDrive\Documents\swapping.exe

```
enter the number :45
enter the number :26
before swapping ->value of a:45 and value of b:26
after swapping ->value of a:26 and value of b:45
```

```
1 //is positive or negative
2 #include<stdio.h>
3 int main()
4 {
5     int n;
6     printf("enter the number :");
7     scanf("%d",&n);
8     if(n>0)
9         printf("positive number");
10    else if(n<0)
11        printf("negative number");
12 }
```

C:\Users\jagad\OneDrive\Documents\in is po or nega.exe

enter the number :6

positive number

Process exited after 1.698 seconds with return value 0

```
1 //reversing
2 #include<stdio.h>
3 int main()
4 {
5     int n,rev=0;
6     printf("enter the number :");
7     scanf("%d",&n);
8     while(n!=0)
9     {
10         rev=(rev*10)+n%10;
11         n/=10;
12     }
13     printf("%d",rev);
14 }
```

C:\Users\jagad\OneDrive\Documents\rev in foc.exe

Enter a String as you wish

HIMA

Given String is reversed here

AMIH

```
1 //sum of digits
2 #include<stdio.h>
3 int main()
4 {
5     int n,sum=0;
6     printf("enter the number :");
7     scanf("%d",&n);
8     while(n!=0)
9     {
10         sum=sum+n%10;
11         n/=10;
12     }
13     printf("%d",sum);
14 }
```

```
C:\Users\jagad\OneDrive\Documents\summing of digits.exe
enter the number :12345
15
-----
Process exited after 3.037 seconds with return val
```

```
1 //printing integer
2 #include <stdio.h>
3 int main() {
4     int number;
5     printf("Enter an integer: ");
6     scanf("%d", &number);
7     printf("You entered: %d", number);
8     return 0;
9 }
```

C:\Users\swath\OneDrive\Documents\printing integer number.exe

Enter an integer: 78

You entered: 78

Process exited after 3.009 seconds with return value 0

Press any key to continue . . .

```
1 //sum & avg
2 #include <stdio.h>
3 int main()
4 {
5     int num,i,sum = 0, n;
6     float avg;
7     printf("Please Enter term of n number:-");
8     scanf("%d", &n);
9     for(i = 1; i <= n; i++)
10    {
11        printf("Number %d = ", i);
12        scanf("%d", &num);
13        sum = sum + num;
14    }
15    avg = sum / n;
16    printf("\nThe Sum of n Numbers      = %d", sum);
17    printf("\nThe Average of n Numbers = %.2f\n", avg);
18 }
```

C:\Users\swathi\OneDrive\Documents\sum and average.exe

Please Enter term of n number:-5

Number 1 = 1
Number 2 = 2
Number 3 = 3
Number 4 = 4
Number 5 = 5

The Sum of n Numbers = 15

The Average of n Numbers = 3.00

```
1 //dec to hexa
2 #include<stdio.h>
3 int main()
4 {
5     int n;
6     printf("enter the decimal num:");
7     scanf("%d", &n);
8     printf("the hex value is :%x", n);
9     return 0;
}
```

C:\Users\jagad\OneDrive\Documents\dec to hexa decimal.exe

Enter decimal number: 10

A

Process exited after 15.13 seconds with return value
Press any key to continue . . .

```
//hexa to decimal
#include <stdio.h>
int main()
{
    int n;
    scanf("%x", &n);
    printf("%d", n);
    return 0;
}
```

C:\Users\jagad\OneDrive\Documents\hexa to dec.exe

a
10

Process exited after 5.387 seconds with return
Press any key to continue . . .

```
//binary multiplication
#include <stdio.h>
int binaryproduct(int, int);
int main()
{
    long binary1, binary2, multiply = 0;
    int digit, factor = 1;
    printf("Enter the first binary number: ");
    scanf("%ld", &binary1);
    printf("Enter the second binary number: ");
    scanf("%ld", &binary2);
    while (binary2 != 0)
    {
        digit = binary2 % 10;
        if (digit == 1)
        {
            binary1 = binary1 * factor;
            multiply = binaryproduct(binary1, multiply);
        }
        else
            binary1 = binary1 * factor;
        binary2 = binary2 / 10;
        factor = 10;
    }
    printf("Product of two binary numbers: %ld", multiply);
    return 0;
}
int binaryproduct(int binary1, int binary2)
{
    int i = 0, remainder = 0, sum[20];
    int binaryprod = 0;
    while (binary1 != 0 || binary2 != 0)
    {
        sum[i++] = (binary1 % 10 + binary2 % 10 + remainder) % 2;
        remainder = (binary1 % 10 + binary2 % 10 + remainder) / 2;
        binary1 = binary1 / 10;
        binary2 = binary2 / 10;
    }
    if (remainder != 0)
        sum[i++] = remainder;
    --i;
    while (i >= 0)
        binaryprod = binaryprod * 10 + sum[i--];
    return binaryprod;
}
```

C:\Users\jagad\OneDrive\Documents\bin mul.exe

Enter the first binary number: 1011
Enter the second binary number: 1100
Product of two binary numbers: 10000100

Process exited after 37.6 seconds with exit code 0
Press any key to continue . . .

```
//bin addition
#include <stdio.h>
int main()
{
    long binary1, binary2;
    int i = 0, remainder = 0, sum[20];

    printf("Enter the first binary number: ");
    scanf("%ld", &binary1);
    printf("Enter the second binary number: ");
    scanf("%ld", &binary2);
    while (binary1 != 0 || binary2 != 0)
    {
        sum[i++] =(binary1 % 10 + binary2 % 10 + remainder) % 2;
        remainder =(binary1 % 10 + binary2 % 10 + remainder) / 2;
        binary1 = binary1 / 10;
        binary2 = binary2 / 10;
    }
    if (remainder != 0)
        sum[i++] = remainder;
    --i;
    printf("Sum of two binary numbers: ");
    while (i >= 0)
        printf("%d", sum[i--]);
    return 0;
}
```

```
C:\Users\jagad\OneDrive\Documents\bin addition
Enter the first binary number: 1011
Enter the second binary number: 0001
Sum of two binary numbers: 1100
-----
Process exited after 15.43 seconds with exit code 0
Press any key to continue . . .
```

```
//#ideci to octal
#include <stdio.h>
int main()
{
    long decimalnum, remainder, quotient,octalnum=0;
    int octalNumber[100], i = 1, j;

    printf("Enter the decimal number: ");
    scanf("%ld", &decimalnum);
    quotient = decimalnum;
    while (quotient != 0)
    {
        octalNumber[i++] = quotient % 8;
        quotient = quotient / 8;
    }
    for (j = i - 1; j > 0; j--)
        octalnum = octalnum*10 + octalNumber[j];
    printf("Equivalent octal value of decimal no %d is: %d ", decimalnum,octalnum);
    return 0;
}
```

C:\Users\jagad\OneDrive\Documents\dec to oct.exe

Enter the decimal number: 12345

Equivalent octal value of decimal no 12345 is: 30071

Process exited after 74.28 seconds with return value 0

Please, press any key to continue . . .

```
1 //oct to decimal
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6
7     long int octal, decimal = 0;
8     int i = 0;
9
10    printf("Enter any octal number: ");
11    scanf("%ld", &octal);
12    while (octal != 0)
13    {
14        decimal = decimal +(octal % 10)* pow(8, i++);
15        octal = octal / 10;
16    }
17    printf("Equivalent decimal value: %ld", decimal);
18    return 0;
19 }
```

C:\Users\jagad\OneDrive\Documents\oct to dec.exe

```
Enter any octal number: 845
← Equivalent decimal value: 549
-----
Process exited after 12.33 seconds with return value 0
Press any key to continue . . .
```

```
1 //bin to dec
2 #include<stdio.h>
3 int main()
4 {
5     int num,binary,decimal=0,base=1,rem;
6     printf("enter a binary number:");
7     scanf("%d",&num);
8     binary=num;
9     while(num>0)
10    {
11        rem=num%10;
12        decimal+=rem*base;\n
13        num/=10;
14        base*=2;
15    }
16    printf("the decimal is : %d",decimal);
17 }
```

```
C:\Users\jagad\OneDrive\Documents\bin to dec.exe
enter a binary number:1011
the decimal is : 11
-----
```

bin sy.cpp bin div.cpp

```
1 //bin division
2 #include <stdio.h>
3 #include <conio.h>
4 int convert(int num)
5 {
6     int binary_num, dec = 0, base = 1, rem;
7     binary_num = num;
8     while (num > 0)
9     {
10         rem = num % 10;
11         dec = dec + rem * base;
12         num = num / 10;
13         base = base * 2;
14     }
15     return dec;
16 }
17 int main()
18 {
19     int n1,n2,rev=0;
20     scanf("%d",&n1);
21     scanf("%d",&n2);
22     int nn1=convert(n1);
23     int nn2=convert(n2);
24     int val=nn1/nn2;
25
26     int binaryNum[32];
27     int i = 0;
28     while (val > 0) {
29         binaryNum[i] = val% 2;
30         val = val / 2;
31         i++;
32     }
33     for (int j = i - 1; j >= 0; j--)
34         printf("%d", binaryNum[j]);
35 }
```

```
C:\Users\jagad\OneDrive\Documents\110110110
110
1001001
-----
Process exited after 7.204 second
Press any key to continue . . .
```