

C++ Programming Notes – 14092020

/* WAP to show the value of a factorial */

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    int i,n,fact=1;
```

```
    cout<<"Enter the range: ";
```

```
    cin>>n;
```

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

```
    {
```

```
        fact = fact * i;
```

```
    }
```

```
    cout<<"\nValue of Factorial: "<<fact;
```

```
}
```

/* WAP to print the fibonacci series */

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    int i,n;
```

```
    int a = 0, b = 1,c = 0;
```

```
    cout<<"Enter the range: ";
```

```
    cin>>n;
```

```
    cout<<a<<" "<<b;
```

```
    for(i=0;i<(n-2);i++)
```

```
    {
```

```
        c = a + b;
```

```
        cout<<" "<<c;
```

```
        a = b;
```

```
        b = c;
```

```
    }
```

```
}
```

/* WAP to print the sum of fibonacci series */

#include<iostream.h>

#include<conio.h>

void main()

{

int i,n;

int a = 0, b = 1,c = 0, sum = 1;

cout<<"Enter the range: ";

cin>>n;

for(i=0;i<(n-2);i++)

{

c = a + b;

sum = sum + c;

a = b;

b = c;

}

cout<<"Sum is: "<<sum;

}

/* WAP to print odd numbers of fibonacci series */

#include<iostream.h>

#include<conio.h>

void main()

{

int i,n;

int a = 0, b = 1,c = 0;

cout<<"Enter the range: ";

cin>>n;

if(a%2!=0)

{

cout<<a;

}

if(b%2!=0)

{

cout<<b;

}

```

    for(i=0;i<(n-2);i++)
    {
        c = a + b;
        if(c%2 != 0)
        {
            cout<<" "<<c;
        }
        a = b;
        b = c;
    }
}

```

/* WAP to print the sum of factors of a number */

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```

{
    int i,n,sum=0;
    cout<<"Enter the number: ";
    cin>>n;

    for(i=1;i<=n;i++)
    {
        if(n%i==0)
        {
            sum = sum + i;
        }
    }
    cout<<"\nSum of factors are: "<<sum;
}

```

/* WAP to print the HCF & LCM */

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```

{
    int m,n,p=1,h,l,i;
    cout<<"Enter the numbers: ";
    cin>>m>>n;

    p = m*n;

```

```

for(i=1;i<=p;i++)
{
    if(m%i==0 && n%i==0)
    {
        h = i;
    }
}
l = p/h;

cout<<"Required HCF: "<<h;
cout<<"\nRequired LCM: "<<l;
}

```

/* WAP to print the factors of a number */

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```

{
    int i,n;
    cout<<"Enter the number: ";
    cin>>n;

    for(i=1;i<=n;i++)
    {
        if(n%i==0)
        {
            cout<<" "<<i;
        }
    }
}

```

Try to work out at your home:

- WAP to print the sum of factors of a number
- WAP to print the even and odd factors of a number simultaneously
- WAP to check a number is prime or not