

C++ Notes – 18092020

/* WAP to count a number of factors of a number */

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

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

```
void main()
```

```
{
```

```
    int n,i,c=0;
```

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

```
    cin>>n;
```

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

```
    {
```

```
        if(n%i==0)
```

```
        {
```

```
            c = c + 1;
```

```
        }
```

```
    }
```

```
    cout<<"\nRequired number of Factors are: "<<c;
```

```
}
```

/* Nested For Loop - WAP to print the prime number series */

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

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

```
void main()
```

```
{
```

```
    int i,j,n;
```

```
    int temp,c=0;
```

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

```
    cin>>n;
```

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

```
    {
```

```
        temp = i;
```

```
        c = 0;
```

```
        for(j=1;j<=temp;j++)
```

```
        {
```

```
            if(temp%j==0)
```

```
            {
```

```
                c++;
```

```
            }
```

```
        }
```

```
        if(c == 2)
```

```
        {
```

```
            cout<<" "<<temp;
```

```
        }
```

```
    }
```

```
}
```

```
/* WAP to check a number is Prime or not */
```

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

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

```
void main()
```

```
{
```

```
    int n,i,c=0;
```

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

```
    cin>>n;
```

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

```
    {
```

```
        if(n%i==0)
```

```
        {
```

```
            c = c + 1;
```

```
        }
```

```
    }
```

```
    if(c == 2)
```

```
    {
```

```
        cout<<"\nPrime Number";
```

```
    }
```

```
    else
```

```
    {
```

```
        cout<<"\nComposite Number";
```

```
    }
```

```
}
```

```
/* WAP to check a number is Co-Prime or not
```

```
15 = 1,3,5,15
```

```
17 = 1,17
```

```
(15,17) = Both are Co-Prime
```

```
*/
```

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

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

```
void main()
```

```
{
```

```
    int m,n,i,p,h;
```

```
    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;
```

```
        }
```

```
    }
```

```
if(h==1)
{
    cout<<"\nCo-Prime numbers";
}
else
{
    cout<<"\nnot a Co-Prime numbers";
}
}
```