

# C++ Notes – 21092020

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

**15 = 1,3,5,15**

**17 = 1,17**

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

**2 = 1,2**

**3 = 1,3**

**6 = 1,2,3,6**

**\*/**

```
#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";
```

```
    }
```

```
}
```

**/\* WAP to check a number Palindrome or not \*/**

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

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

```
void main()
```

```
{
```

```
    int n,temp,d,rev=0;
```

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

```
    cin>>n;
```

```
    temp = n = 131;
```

```
    while(temp != 0)
```

```
    {
```

```

        d = temp % 10;
        rev = rev * 10 + d;
        temp = temp / 10;
    }

    if(rev == n)
    {
        cout<<"Palindrome Number";
    }
    else
    {
        cout<<"Not a Palindrome Number";
    }
}

```

```

/* WAP to check a number is Neon or not
9 = Neon Number
9*9 = 81 = 8+1 = 9
*/

```

```

#include<iostream.h>
#include<conio.h>

void main()
{
    int n,p,d,sum=0;
    cout<<"Enter the number: ";
    cin>>n;

    p = n*n;
    while(p!=0)
    {
        d = p%10;
        sum = sum + d;
        p = p / 10;
    }

    if(sum == n)
    {
        cout<<"Neon Number";
    }
    else
    {
        cout<<"Not Neon Number";
    }
}

```

**/\* WAP to print the series of Neon Numbers up to n terms**

**9 = Neon Number**

**9\*9 = 81 = 8+1 = 9**

**\*/**

**#include<iostream.h>**

**#include<conio.h>**

**void main()**

**{**

**int n,i,p,d,sum=0;**

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

**cin>>n;**

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

**{**

**p = i\*i;**

**sum = 0;**

**while(p!=0)**

**{**

**d = p%10;**

**sum = sum + d;**

**p = p/10;**

**}**

**if(sum != i)**

**{**

**cout<<" "<<i;**

**}**

**}**

**}**

**/\* WAP to print the following pattern --**

**1**

**1 2**

**1 2 3**

**1 2 3 4**

**1 2 3 4 5**

**\*/**

**#include<iostream.h>**

**#include<conio.h>**

**void main()**

**{**

**int i,j;**

**for(i=1;i<=5;i++)**

**{**

**for(j=1;j<=i;j++)**

**{**

**cout<<" "<<j;**

**}**

**cout<<"\n";**

**}**

**}**

**/\* WAP to print the following pattern -**

**\$**  
**\*\***  
**\$\$\$**  
**\*\*\*\***  
**\$\$\$\$\$**

**\*/**

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

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

```
void main()
```

```
{
```

```
    int i,j;
```

```
    for(i=1;i<=5;i++)
```

```
    {
```

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

```
        {
```

```
            if(i%2 == 0)
```

```
            {
```

```
                cout<<" "<<'*';
```

```
            }
```

```
            else
```

```
            {
```

```
                cout<<" "<<'$';
```

```
            }
```

```
        }
```

```
        cout<<"\n";
```

```
    }
```

```
}
```

**/\* WAP to print the following pattern -**

**1**  
**00**  
**111**  
**0000**  
**11111**

**\*/**

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

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

```
void main()
```

```
{
```

```
    int i,j;
```

```
    for(i=1;i<=5;i++)
```

```
    {
```

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

```
        {
```

```
            if(i%2 == 0)
```

```
            {
```

```
                cout<<" "<<'0';
```

```
            }
```

```
            else
```

```

        {
            cout<<" "<<'1';
        }
    }
    cout<<"\n";
}

```

### **/\* Switch Case Example \*/**

```

#include<iostream.h>
#include<conio.h>

void main()
{
    int ch,i,j;
    cout<<"Enter the choice: ";
    cin>>ch;

    switch(ch)
    {
        case 1:
            //int i,j;

            for(i=1;i<=5;i++)
            {
                for(j=1;j<=i;j++)
                {
                    cout<<" "<<j;
                }
                cout<<"\n";
            }
            break;

        case 2:
            //int i,j;

            for(i=1;i<=5;i++)
            {
                for(j=1;j<=i;j++)
                {
                    if(i%2 == 0)
                    {
                        cout<<" "<<'*';
                    }
                    else
                    {
                        cout<<" "<<'$';
                    }
                }
                cout<<"\n";
            }
            break;

        case 3:
            //int i,j;

```

```
for(i=1;i<=5;i++)
{
    for(j=1;j<=i;j++)
    {
        if(i%2 == 0)
        {
            cout<<" "<<'0';
        }
        else
        {
            cout<<" "<<'1';
        }
    }
    cout<<"\n";
}
break;
}
```

\*\*\*\*\*