# C++ Programming Notes – 02092020

```cpp
/* WAP to find the value of expression */
#include<iostream.h>
#include<conio.h>

void main()
{
     int p,q;
     cout<<"Enter the value of q: ";
     cin>>p>>q;

     //p*=10+q;
     //p=p*10+q;
     p=(p*10)+q;
     cout<<"Value of p = "<<p;
}
```

```cpp
/* WAP to find out suitable tax rate from the following table */
#include<iostream.h>
#include<conio.h>

void main()
{
     long int income=0,tax=0;
     cout<<"Enter the taxable income: ";
     cin>>income;

     if(income<=100000)
     {
          tax=0;
     }
     else if(income>100000 && income<=150000)
     {
          tax = ((income - 100000)*10)/100;
     }
     else if(income>150000 && income<=250000)
     {
          tax = (((income - 150000)*20)/100) + 5000;
     }
     else
     {
          tax = (((income - 250000)*30)/100) + 25000;
     }
```

```cpp
        cout<<"Taxable income is: "<<income;
        cout<<"\nTax is: "<<tax;
}


/* WAP to find the shortest side of any triangle */
#include<iostream.h>
#include<conio.h>

void main()
{
        int a,b,c;
        cout<<"Enter the sides of a trinagle: ";
        cin>>a>>b>>c;

        if(a<b)
        {
                if(a<c)
                {
                        cout<<"Shortest side is: "<<a;
                }
                else
                {
                        cout<<"Shortest side is: "<<c;
                }
        }
        else if(b<c)
        {
                if(b<a)
                {
                        cout<<"Shortest side is: "<<b;
                }
                else
                {
                        cout<<"Shortest side is: "<<a;
                }
        }
        else
        {
                cout<<"Shortest side is: "<<c;
        }
}
```

```cpp
/* WAP to check leap year or not */
#include<iostream.h>
#include<conio.h>

void main()
{
        int year;
        cout<<"Enter the number: ";
        cin>>year;

        if(((year%4==0)||(year%100!=0))||(year%400==0))
        {
                cout<<year<<" is a leap year";
        }
        else
        {
                cout<<year<<" is not a leap year";
        }
}
```

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