



APPLICATIONS (IF & SWITCH)

IN C++ LANGUAGE

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Fifth Lecture

Q7////write a program to input 3 integers and determine which of them is biggest?

```
#include<iostream>

using namespace std;

int main()
{ int a,b,c;

cout<<"enter a , b and c one after another"<<endl; cin>>a>>b>>c;

if (a>b&&a>c) cout<<"first number is bigger="<<a<<endl;

if (b>a&&b>c) cout<<"the second number is bigger="<<b<<endl;

if (c>a&&c>b) cout<<"the last number is bigger="<<c<<endl;

if(a==c&&c==b) cout<<"all the numbers are equal"<<endl;

return 0;

}
```



Q7////write a program to input 3 integers and determine which of them is biggest? (Second Method)

```
#include<iostream>
using namespace std;
int main()
{
int x,y,z; int larg;
cin>>x>>y>>z;
larg=x;
if (y>larg) larg=y;
if (z>larg) larg=z;
cout<<"larg No.="<<larg;
return 0;
}
```

```
//find smallest No.?
#include<iostream>
using namespace std;
int main()
{
int x,y,z; int small;
cin>>x>>y>>z;
small=x;
if (y<small) small=y;
if (z<small) small=z;
cout<<small;
return 0;
}
```

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Q5//Write Program (W.P.) to read first and second letter from names day starting and print name of day?

```
#include<iostream>
using namespace std;
int main()
{
char t1,t2;
cout<<"Enter first charater: "; cin>>t1;
switch (t1)
{
case 's': {cout<<"Enter second charater: ";
cin>>t2;
switch(t2)
{ case 'u': cout<<"Sun."; break;
case 'a': cout<<"Sat."; break;
default: cout<<"ERROR !!!"; break;
}break; }
```

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Q5//Write Program (W.P.) to read first and second letter from names day starting and print name of day?

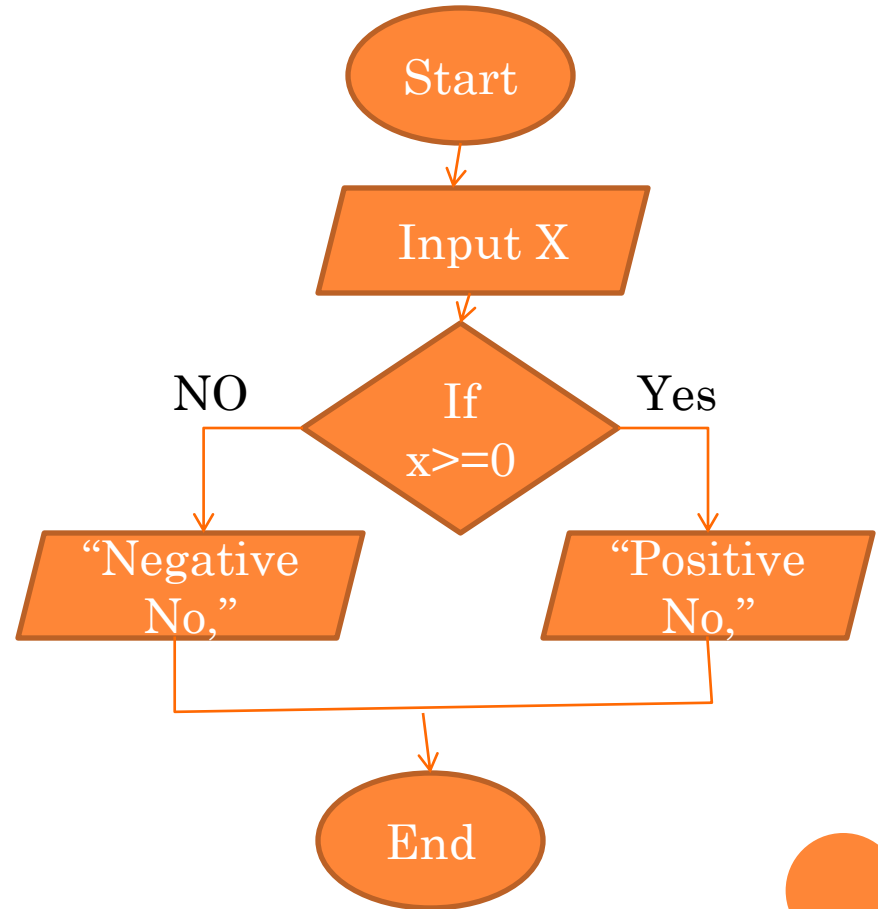
```
case 'm': cout<<"Mon."; break;
case 't': {cout<<"Enter second charater: ";
           cin>>t2;
           switch(t2)
           { case 'u': cout<<"Tues."; break;
             case 'h': cout<<"Thri."; break;
             default: cout<<"ERROR !!!";
           } break; }
case 'w': cout<<"wen."; break;
case 'f': cout<<"Fri."; break;
default: cout<<"ERROR!!!";
}
return 0; }
```



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Q1// Write Program (W.P.) to check integer number x positive or nagative ?

```
#include<iostream>
using namespace std;
int main()
{
int x;
cin>>x;
if (x>=0)
    cout<<"x is pos.";
else
    cout<<"x is nag.";
return 0;
}
```



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Q3// Write Program (W.P.) to find Y value , when

$$Y = \sqrt{x^2 + z^2}$$

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
int x,z; double y;
cout<<"Enter x value: "; cin>>x;
cout<<"Enter z value: "; cin>>z;
    y=sqrt(x*x+z*z);
        cout<<"Y="<<y;
return 0;
}
```



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Q3// Write Program (W.P.) to find Y value , when

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
int x; double y;
cin>>x;
if (x%2==0)
    y=sqrt(pow(x,4)+5*x+3);
else
    y=sqrt(pow(x,3)+2*x+5);
cout<<"Y="<<y;
return 0;}
```

$$Y = \begin{cases} \text{X is even} & \sqrt{x^4 + 5x + 3} \\ \text{X is odd} & \sqrt{x^3 + 2x + 5} \end{cases}$$



Q0//what is the output of this program:

```
#include<iostream>
using namespace std;
int main()
{
int x,y,z;
x=y=z=0;
x=+++y + ++z;
cout<<x<<y<<z<<endl;
x=y++ + z++;
cout<<x<<y<<z<<endl;
x=+++y + z++;
cout<<x<<y<<z<<endl;
x=y-- + --z;
cout<<x<<y<<z<<endl;
return 0;
}
```

Output screen

```
-----
211
222
533
522
```

