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Control statement

- These are those statements that allow us to control the execution of the statement(s).
- These are four types:
 - Sequence control statement (Normal way of execution)
 - All the statements are executed in the order in which they are placed.
 - It gets executed only one time.
 - This is the default nature of the execution.
 - Selection control statement
 - While execution of application there is need to take decision.
 - These decision applications take by using selection control statement.
 - Loop control statement
 - Case control statement

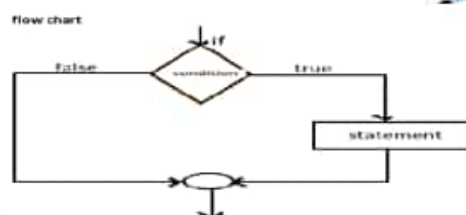
Selection control statement

- An application required to take decision while execution.
- When application wants to take decision need these statements.
- In this technology using the keyword **if** you can take decision.
- If has its several forms
 - Plain/Simple if
 - If...else pair
 - Nested if
 - else if ladder



Simple if

- Simple if
Syntax:
`if(condition)`
{
 Statement;
}



- If condition is true then statement will be execute otherwise skip all the statement from execution.



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e.g.
 /*Write a program to input a number
 and find out absolute value of the given
 number
 */
 #include<iostream>
 using namespace std;
 main()
 {
 int n ;
 cout << "Enter a number";
 cin >> n ;
 if (n < 0)
 {
 n = n * -1 ;
 }
 cout << endl << "absolute value is " << n ;
 }

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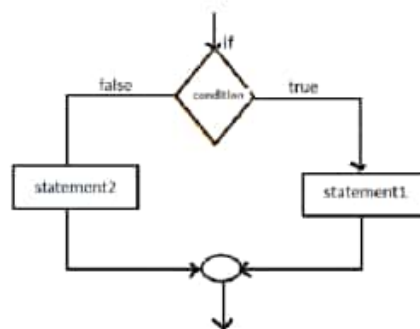
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if ... else format

- If ... else format
 Syntax :
 if (condition)
 {
 statement 1;
 }
 else
 {
 statement 2;
 }



- If condition is true then statement1 will be execute but if condition is false then else statement2 execute.

e.g.
 /*Write a program to input a number and find out whether it is
 negative number or positive number
 */
 #include<iostream>
 using namespace std;
 main()
 {
 int n ;
 cout << "Enter a number";

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```
cin >> n ;
if ( n < 0 )
{
    cout << endl << "negative number";
}
else
{
    cout << endl << "positive number";
}
}
```

- **Composite condition**

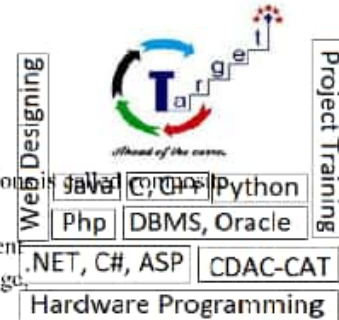
- A condition can be made from two or more conditions in a single condition.

/*Write program to input 5 subject's marks of student from the keyboard and find out the percentage, if each subject is of 100 marks then print division of the student.

If percentage ≥ 60 then first division
if percentage < 60 and ≥ 50 then second division
if percentage < 50 and ≥ 30 then third division
otherwise fail

```
*/
#include <iostream>
using namespace std;
main()
{
    int a, b, c, d, e, sum ;
    float per;
    cout << "\nEnter marks of english";
    cin >> a ;
    cout << "\nEnter marks of hindi";
    cin >> b ;
    cout << "\nEnter marks of physics";
    cin >> c ;
    cout << "\nEnter marks of chemistry";
    cin >> d ;
    cout << "\nEnter marks of math";
    cin >> e ;
    sum = a + b + c + d + e;
    per = sum * 100.0F / 500;
    if ( per  $\geq 60.0$ )
    {

```



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```
        cout << endl << "first division";
    }

    if ( per < 60.0f && per > 50.0f)
    {
        cout << endl << "second division";
    }

    if ( per < 50.0f && per > 30.0f)
    {
        cout << endl << "third division";
    }

    if ( per < 30 )
    {
        cout << endl << "fail";
    }
}
```

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- **else if ladder:**

Syntax:

```
if ( condition 1)
{
    Statement1;
}
else if ( condition 2)
{
    Statement 2;
}
else if (condition 3)
{
    Statement 3;
```

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```
    }  
    ....  
    ....  
    else  
    {  
        StatementElse;  
    }  
}
```

If condition 1 is true then statement 1 get execute otherwise only condition 2 will be check if it is true then statement 2 get execute otherwise only condition 3 will be test and its statement 3 get execute and so on. But else execute only when all the condition are false.

c.g.

/*Write program to input 5 subject's marks of student input from the keyboard and find out the percentage, if each subject is of 100 marks then print division of the student.

If percentage ≥ 60 then first division
if percentage < 60 and ≥ 50 then second division
if percentage < 50 and ≥ 30 then third division
otherwise fail

```
*/  
#include <iostream>  
using namespace std;  
main()  
{  
    int a, b, c, d, e, sum ;  
    float per;  
    cout << "\nEnter marks of english";  
    cin >> a ;  
    cout << "\nEnter marks of hindi";  
    cin >> b ;  
    cout << "\nEnter marks of physics";  
    cin >> c ;  
    cout << "\nEnter marks of chemistry";  
    cin >> d ;  
    cout << "\nEnter marks of math";  
    cin >> e ;  
    sum = a + b + c + d + e;  
    per = sum * 100.0F / 500;  
    if ( per >= 60.0f)  
    {  
        cout << endl << "first division";  
    }  
}
```

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```
else if ( per < 60.0f && per > 50.0f)
{
    cout << endl << "second division";
}
else if ( per < 50.0f && per > 30.0f)
{
    cout << endl << "third division";
}
else if ( per < 30 )
{
    cout << endl << "fail";
}
}
```




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