



Al-mustaqbal University collage

Biomedical Engineering Department

Class: First

Subject: Computer Skills & Programming

Lecture 5: CONDITIONAL SELECTION STATEMENTS

BY

IT. Zahraa Abdzaid AbdelAbbas

Supervised by: ASS.T. Hala Fadel Alaiwi

CONDITIONAL SELECTION STATEMENTS

C++ programming language provides two conditional selection statements. They are:

1. if statement.
2. if else statement.

1. if statement.

The if statement allows to execute an instruction or block of instructions only if the specified condition is true. It has the following syntax :

```
if ( conditional expression)
```

```
{  
Block_of_statements;  
}
```

General Form of single block selection If statement:

```
if ( expression or condition )  
{  
    statement1 ;  
    statement2 ;  
    statement3 ;  
}
```

Example 1:

Write a c++ program to read any two numbers and print the largest value of it :

```
#include<iostream.h>
#include<conio.h>
int main(){
int x,y;
cout<<"Enter any two numbers\n";
cin>>x>>y;
if(x>y){
cout<<"largest value is"<<x;}
getch();}
```

output:

C:\Users\Dell\Desktop\الاكبر.exe

```
Enter any two numbers
6
5
largest value is6
```

Example 2:

```
#include<iostream.h>

#include<conio.h>

int main(){

int x = 20;

int y = 18;

if (x > y){

cout << "x is greater than y"; }

getch();}
```

C:\BC5\BIN\NONAME00.exe

x is greater than y

2. if else statement.

This statement is used when we have two choices, it is written as follows:

```
if (condition)
```

```
{
```

```
Block1_of_statements;
```

```
}
```

```
else
```

```
{ Block2_of_statements;}
```

```
#include<iostream.h>
#include<conio.h>
int main(){
int x;
cin>>x;
if (x %2== 0)
{
cout << "x is even";
}
else
{
cout << "x is odd"; }

getch();}
```

Output:

C:\BC5\BIN\NONAME00.exe

7
x is odd

3. Else if statement.

```
if (condition1) {  
    // block of code to be executed if condition1 is true  
} else if (condition2) {  
    // block of code to be executed if the condition1 is false and condition2  
    is true  
} else {  
    // block of code to be executed if the condition1 is false and condition2  
    is false  
}
```

```
int time = 22;
if (time < 10) {
    cout << "Good morning.";
} else if (time < 20) {
    cout << "Good day.";
} else {
    cout << "Good evening.";
}
```

output:

Outputs "Good evening."

Thank you