

**C# Programming**

**Selection**

All the programs so far have made use of Data and Variables – but have all ran in SEQUENCE. Programs don’t always run in SEQUENCE and require an element of SELECTION. SELECTION means that part of the code may be executed depending upon a CONDITION being met.

Conditions are made up as follows:

Variable/Value Relational-Operator Variable/Value

Relational Operators are as follows:

== Equal To

< Less Than

<= Less Than or Equal To

> Greater Than

>= Greater Than or Equal To

!= Not Equal To

**Statements Used**

If (condition)

{

}

**The Program**

namespace ConsoleApplication

{

class Program

{

static void Main(string[] args)

/\* Using an IF Statement

\* D Bateson

\* September 2017 \*/

{

int Mark;

int PassMark;

Console.WriteLine("Please enter your mark");

Mark = int.Parse(Console.ReadLine());

Console.WriteLine("Please enter the pass mark");

PassMark = int.Parse(Console.ReadLine());

if (Mark >= PassMark)

{

Console.WriteLine("Well done you passed!");

}

Console.ReadLine();

}

}

}

**Programming Tasks**

For each of these programming tasks, create and test a program. For each:

* Add comments with a description of the task, your name and the date
* Copy the program to a Word document
* Paste a screen shot of the console as evidence that the program worked
* Check that you have your name, set and date in a header

**Task 1**

Write a program that asked for the user to enter a Positive number. If the User enters a Negative number the program will display the message “That is not a positive number”.

**Task 2**

The user will be asked to enter any number into the console. The program will display **ALL** of the correct messages shown below that meet the conditions:

1. Number is equal to Zero
2. Number is not equal to Zero
3. Number is Less than or equal to One
4. Number is Greater than 10
5. Number is between 1 and 20 inclusively

**Task 3**

Two players of mini-golf enter their scores into a computer. The program will determine which player is the winner by seeing whose score is the lowest. The program should output a message in the following format

“Hi Mary, you was the winner at Mini-Golf and beat Bob by 5 points”

Hint:

You need to enter names for each player, you also need to work out the difference of the two scores.