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|  | **BAHRIA UNIVERSITY,**  **(Karachi Campus)**  *Department of Software Engineering*  **ASSIGNMENT#01 – Fall 2020** |

Course Title: **Computer Programming** Course Code: **CSC-113**

Class: **BSE – 1(A, B)** Deadline: **01-Nov-2020**

Course Instructor: **Engr. M. Adnan Ur Rehman** Max. Points: **20 Points**

**Instructions:**

* All question should be answered in the same file using black font color.
* Upload your solution only on LMS.

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| **STUDENT INFORMATION** | |
| **Enrolment#** | **Student Name** |
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**Question-1:**

By using examples write down the difference between if-else-statement and switch-statement.

Note: Write snippets of the C# code where necessary. Do not attach any VS Project with this document.

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| **S.NO** | **IF-ELSE STATEMENT** | **SWITCH STATEMENT** |
| **1** | The general form of if-else statement has following,  If (Condition)  {  Block of statements  } else {  Block of statements } | The general form of switch statement has following, Switch (expression) {  case 1:  Statements;  break;  case 2:  statements;  break;  .  .  .  default:  statements;  break; } |
| **2** | In if-else statement use multiple curly brackets {} to complete program. | In switch case statement use single curly bracket {} to complete program. |
| **3** | It is a selection statement. | It is used when multiple choices are given, and one choice is to be selected. |
| **4** | Depending upon the situation in if-else which statement block is executed. | User will decide which statement to be executed. |
| **5** | It contains multiple logical or equality expression | It contains single expression either char or integer variable |
| **6** | If-else evaluates all types of data, such as integer, floating point etc. | It evaluates only integer or character. |
| **7** | Execution is slow. | Execution is fast. |
| **8** | It is difficult to edit if else statement, if the nested if else statement is used. | It is easy to edit switch cases as, they are recognized easily. |
| **9** | Else can be used inside the if body. | Break can be used inside switch body. |
| **10** | It supports logical operators. | It does not support logical operators. |
|  | **Example:** {  int F = 20;  if (F < 18)  {  Console.WriteLine("hellow");  }  else  {  Console.WriteLine("Bye bye");  } | **Example:** int c = 3;  switch (c)  {  case 1:  Console.WriteLine("A");  break;  case 2:  Console.WriteLine("B");  break;  case 3:  Console.WriteLine("C");  break;  case 4:  Console.WriteLine("D");  break;  case 5:  Console.WriteLine("E");  break;  default:  Console.WriteLine("Invalid");  break;  }  }  }  } |