|  |
| --- |
| Department of Software Engineering  Mehran University of Engineering and Technology, Jamshoro |

|  |  |  |  |
| --- | --- | --- | --- |
| Course: AI-112 – Programming Fundamentals | | | |
| Instructor | Engr. Fahama Barakzai | **Practical/Lab No.** | 04 |
| Date |  | **CLOs** | 3 |
| Signature |  | **Assessment Score** | 01 Mark |

|  |  |
| --- | --- |
| Topic | Working with Control Structures (Decision making statements – if, if…else, switch), Nested structure |
| Objectives | * To become familiar with Control Structures (Selection / Conditional Statements). * If statement, else statement, else-if statement. * Nested statement structure. |

|  |
| --- |
| Lab Discussion: Theoretical concepts and Procedural steps |

**TOOLS: TURBOO C++/ DEV C++/ VS-CODE/ CODE BLOCKS**

|  |
| --- |
| Lab Tasks |

1. Practice a C++ program that takes a single character as input and tells whether it is a vowel or a consonant **(use Switch Statement)**.
2. Try to create a C++ program that performs arithmetic operations on two numbers after taking 3 arguments at runtime; 1st number, 2nd number and the operators (+, -, \*, /) and prints the result **(use Switch Statement)**.
3. Rebuild a C++ program to allow a user to input his/her age. Then the program will show is the person is eligible to vote.

**Hint:** A person who is eligible to vote must be older than or equal to 18 years of age.

**Expected Output:**

Enter your age: 18

You are eligible to vote.

1. Rebuild a C++ program that accepts two numbers from the user and compares them to find the greater number.
2. Practice a C++ program that will ask the user to enter any number and the program checks whether the entered number is a positive number or negative number.