Assignment

*Question 1*

*Answer =*

With control flow, you can execute certain code blocks conditionally and repeatedly and these basic building blocks can be combined to create a code. Python uses if, elif , and else keywords to create control flow statements in program.

*Question 2*

*Answer =*

The Python If-else statement is used to execute both the true and false parts of a condition. If the condition is true, the code within the “If” block is executed. If the condition is false, the code within the “Else” block is executed

*Question 3*

*Answer =*

An **if** statement is a selection statement that allows more than one possible flow of control.

The **ELSE** statement specifies that alternate processing is to take place when the conditions of the matching **IF** statement are not satisfied.

The **“else if”** statement in Python provides a way to handle multiple conditions sequentially. It allows us to specify a series of conditions to be evaluated one after another and execute the corresponding code block when a condition is true.

**Nested if-else =** Using if-else statement within another if statement.

*Question 4*

*Answer =*

Logical Operators in python allow you to combine and manipulate conditions within if else statements. The AND operator requires both conditions to be true for the block of code within the IF statement to execute.

The OR operator requires at least one condition to be true.

The NOT operator negates the truth value of a condition.

*Question 5*

*Answer =*

Nested if else statement are preferred over if else structures in situations where multiple conditions needed to be checked sequentially and each condition’s block of code should be executed independently.

*Question 6*

*Answer =*

When the first true condition is found , the corresponding block of code is executed and the rest of the ladder is skipped. If none of the conditions are true the code in the else block is executed.

*Question 7*

*Answer =*

Indentation ensures that code is organized , It influences the flow of control in python. Incorrect indentation can lead to syntax error.