



Day 6: Conditional Statements Test

Multiple Choice Questions (MCQs)

1. What is the correct syntax for an if statement in Python? (More than 1 option)
 - a) if x > 5 then:
 - b) if (x > 5):
 - c) if x > 5:
 - d) if x > 5;
2. What will be the output of the following code?

```
x = 10
if x > 5:
    print("Greater than 5")
elif x < 5:
    print("Less than 5")
else:
    print("Equal to 5")
```

- a) Greater than 5
 - b) Less than 5
 - c) Equal to 5
 - d) Error
3. Which of the following is NOT a valid way to use an if statement?
 - a) if x == 10:
 - b) if x = 10:
 - c) if x != 10:
 - d) if x >= 10:

4. What keyword is used to check multiple conditions in Python?
- a) elseif
 - b) elif
 - c) else if
 - d) ifelse
5. What will be the output of the following code?

```
x = 0
if x:
    print("True")
else:
    print("False")
```

- a) True
- b) False
- c) 0
- d) None

Practical Questions

1. Write a Python program that takes an integer input from the user and checks whether it is positive, negative, or zero using if, elif, and else statements.
2. Write a Python program that determines whether a given year is a leap year. A year is a leap year if it is divisible by 4 but not by 100, except when it is also divisible by 400.
3. Given a variable `marks`, write a Python program that assigns grades based on the following conditions:
 - Marks ≥ 90 : Grade A
 - Marks ≥ 80 : Grade B
 - Marks ≥ 70 : Grade C
 - Marks ≥ 60 : Grade D
 - Marks < 60 : Grade F