**INTERNAL ASSIGNMENT**

**Course Code : -** 23OMC204B **Last Date of Submission: -**

**Course Title : -** Python Programming

**Assignment No. : -** 4 **Maximum Marks: 8**

**Note:**

1. Every Multiple Choice Question Carries 1 mark.

**(8 x 1 = 8 Marks)**

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| **Q.No.** | **Question** |
| 1 | What is the correct way to increment the variable x by 1 in Python?   * 1. x =+ 1   2. x += 1   3. x ++   4. ++x |
| 2 | Which of the following correctly describes a while loop in Python?   * 1. It runs a block of code a specific number of times.   2. It runs a block of code as long as its condition is true.   3. It always runs at least once.   4. It runs a block of code only once. |
| 3 | Which of the following code snippets will result in an infinite loop?   * 1. while False: print("Hello")   2. while True: print("Hello")   3. while 1 == 2: print("Hello")   4. while 0: print("Hello") |
| 4 | What is the purpose of the continue statement in a loop?   * 1. It terminates the loop.   2. It skips the rest of the code inside the loop for the current iteration.   3. It exits the loop and moves to the next statement after the loop.   4. It makes the loop condition False. |
| 5 | What will be the output of the following code?  for i in range(5):  if i == 3:  continue  print(i)   * 1. 0 1 2 3 4   2. 0 1 2 3   3. 0 1 2 4   4. 0 1 2 |
| 6 | Which of the following is the correct syntax for a for loop in Python?   * 1. for i to range(5):   2. for i in range(5):   3. for i from range(5):   4. for i at range(5): |
| 7 | What will be the output of the following code?  numbers = [1, 2, 3, 4, 5]  total = 0  for number in numbers:  total += number  print(total)   * 1. 10   2. 12   3. 14   4. 15 |
| 8 | An infinite loop   * 1. The loop will end after a specific number of iterations   2. The loop will skip iterations   3. The program will run indefinitely without termination   4. The loop will execute only once |