

# PRACTISE QUESTIONNS SET 3

## Section A:

1. What type of variable assignment does Python support?
  - a. Static
  - b. Dynamic
  - c. Manual
  - d. Implicit
2. What is the correct syntax for an if statement in Python?
  - a. `if x > 5 then:`
  - b. `if x > 5:`
  - c. `if (x > 5) {`
  - d. `if x > 5 do:`
3. What is the output of this code `bool("Hello")`?
  - a. True
  - b. False
  - c. None
  - d. Error
4. What will happen if the following code is executed?

```
for i in range(1, 10, -3):  
    print(i)
```

  - a. It will print numbers from 1 to 10 with a step of -3.
  - b. It will throw a ValueError because the step is negative and the start is less than the end.
  - c. It will throw a SyntaxError.
  - d. It will print nothing.
5. What is the output of this code `print("Hello" + 1530)`?
  - a. Hello1530
  - b. Error
  - c. None
  - d. 1530Hello
6. Which of these is NOT true about a compiler?
  - a. It generates machine code.
  - b. It is slower than an interpreter during the first execution.
  - c. It executes the program line by line.
  - d. Errors are displayed after the entire code is compiled.
7. What happens if the following code is executed and the user inputs "ten"?

```
number = int(input("Enter a number: "))  
print(f"The double of the number is {number * 2}")
```

  - a. It will print "The double of the number is ten".
  - b. It will throw a ValueError.
  - c. It will print 20.
  - d. It will throw a TypeError.

8. What will be the output if the user enters **10, 20, and 30**?

```
a = int(input("Enter the first number: "))
b = int(input("Enter the second number: "))
c = int(input("Enter the third number: "))
print("The average is:", (a + b + c) / 3)
```

- a. The average is 20
- b. The average is 20.0
- c. 20
- d. 60

9. What does the “is” operator compare?

- a. The values of two objects
- b. The memory locations (identity) of two objects
- c. Both values and memory locations
- d. The type of two objects

10. What will the following code output?

```
a = 0
b = 0
print(a > b)
```

- a. True
- b. False
- c. Error
- d. None

## Section B:

1. Write a Python function to reverse a given string.
2. Write a function that prints all even numbers between 1 and 20 using a while loop.
3. Write a Python program to determine whether the speed limit exceeds 110 km per hour. If the speed exceeds 110, then fine = 300, otherwise fine = 0. Display fine.
4. Draw a Flowchart and Write a Python Program for Multiplication Tables up to 10.
5. Write a program that prompts the user to prints all numbers between 1 and 50 that are divisible by 3.
6. Ask the user to enter a number. If the number is even, print "The number is even." If the number is odd, print "The number is odd." Continue asking for a number until the user enters 0.
7. Write a program to count how many times the number 7 appears in a list using a while loop.
8. Write a program that finds the sum of digits in a number.
9. Write a python program to ask for the score input and print the respective grade as follow:

Score	Grade
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Above 80	A
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60 - 79	B
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40 – 59	C
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Below 40	D
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10. Accept 2 input values from user and do arithmetic operation. (+, -, \*, /, %). (HINT: simple calculator)