

## **Assignment - Python**

**1. What is the result of the following expression in Python?**

**print(True == 1)**

- a) True**
- b) False**
- c) Error**

**2. Write a program that takes the age of the user as input and tells them if they're old enough to ride a roller coaster. The minimum age to ride the roller coaster in this question is 13.**

**3. You are given 3 integer angles(in degrees) A, B and C of a triangle. You have to tell whether the triangle is valid or not. A triangle is valid if sum of its angles equals to 180.**

**4. Write a program to input two numbers(A & B) from user and print the maximum element among A & B in each line.**

**5. Given the number N, Categorise the number according to following condition :**

- 1. Odd-Positive**
- 2. Odd-Negative**
- 3. Even-Positive**
- 4. Even-Negative**

**6. Given a positive integer A, return an array of strings with all the integers from 1 to N. But for multiples of 3 the array should have “Fizz” instead of the number. For the multiples of 5, the array should have “Buzz” instead of the number. For numbers which are multiple of 3 and 5 both, the array should have "FizzBuzz" instead of the number.**

**7. Take an integer A as input. You have to tell whether A is divisible by both 5 and 11 or not.**

**8. Write a program to print all even numbers from 1 to N where you have to take N as input from the user.**

**Note: Use while-loop OR for-loop, according to session flow.**

**9. Write a program to print all odd numbers from 1 to N where you have to take N as input from the user. Here N is inclusive.**

**10. How many times will the following loop run?**

```
c = 0  
while c<=10:  
    print(c)  
    if c%2:  
        c-=1  
    else:  
        c+=1
```

- a) 20**
- b) 10**
- c) Infinite times**
- d) 5**