# **Question – 1:**

## Question - 2:

```
print("True\nBoth arrays are equal")
      elif c == 0:
          print("False\nBoth arrays are not equal")
23
       elif c == 0
 ₽ Q2 ×
   Enter the length of array: 6
   Start entering the values for first array
Ť.
   Start entering the values for second array
   First Array: [1, 0, 0, 0, 1, 0]
   Second Array: [0, 0, 1, 1, 0, 1]
    False
    Both arrays are not equal
```

## Question - 3:

```
🛵 main.py 🗡
      import numpy as np
      print(0 * np.nan)
      print(np.nan != np.nan)
      print(np.inf > np.nan)
      print(np.nan - np.nan)
      print(0.3 == 3 * 0.1)
 👘 main 🗡
    "C:\Users\shanm\Desktop\Task 8\pyth
    nan
    True
    False
    nan
    False
î
    Process finished with exit code 0
```

## Question - 4:

```
import pandas as pd
      ser = pd.Series(dtype=object)
      n = int(input("Enter the number of words: "))
      print("Start entering the words: ")
     w = pd.Series([input()])
🦆 main 🗵
   Enter the number of words: 6
   Start entering the words:
±
=
ŧ.
            Amrita
   0
             School
   1
   2
                 0f
   3
        Engineering
            Chennai
   5
             Campus
   dtype: object
```

### **Question - 5:**

1.

```
₹ 1.ру
       a2 = []
     for i in range(n):
          num = int(input(""))
          a2 += [num]
      add = np.add(a1, a2)
      print("First array: ", a1)
      print("Second array: ", a2)
    Enter the number of values for an array: 3
    start entering the values for First array
큵
    start entering the values for Second array
î
    First array: [125, 234, 567]
    Second array: [9, 5, 3]
    Sum of the arrays is: [134 239 570]
```

```
<u>г</u> 2.ру ×
Enter the size of First matrix(m×n)
   Enter the size of Second matrix(m×n)
   m : 3
   Start entering values for First Matrix:
   Enter values for row - 1 :
   Enter values for row - 2 :
   Start entering values for Second Matrix:
   Enter values for row - 1 :
   Enter values for row - 2 :
   Enter values for row - 3:
   Your First Matrix is:
    [[1. 3. 4.]
    [2. 5. 6.]]
   Your Second Matrix is:
    [[2. 6.]
    [2. 4.]
    [1. 3.]]
   Multiplication result of the matrices is:
    [[12. 30.]
    [20. 50.]]
```