# TASK 8 [PYTHON - MEDICORE LVL]

**Output of Question 1:** 

```
program2.py
                 program4.py
                                   program5.py
                                                     program3.py
                                                                      program1.py X
Task-8 > ♦ program1.py > ...
      import numpy as np
      q=[]
      a=np.array([0,0,0,0,0])
     b=int(input("Enter first number:"))
      c=int(input("Enter last number:"))
      for i in range(b,c+1):
         q.append(i)
              for j in a:
                  q.append(j)
      q = np.array(q)
 13 print(np.float_(q))
                                 TERMINAL
PS C:\Users\prana\OneDrive\Documents\Task-8> python -u "c:\Users\prana\OneDrive\Documents\Task-8\program1.py"
Enter first number:1
[1. 0. 0. 0. 0. 0. 2. 0. 0. 0. 0. 0. 3. 0. 0. 0. 0. 4.]
PS C:\Users\prana\OneDrive\Documents\Task-8>
```

### **Output of Question 2:**

```
program2.py X • program4.py
                                   program5.py
                                                     program3.py
                                                                       program1.py
Task-8 > ♦ program2.py > ...
      import numpy as np
      a=np.array([1,2,3,4,5])
      b=np.array([4,2,3,4,5])
      for i in range(0,a.__len__()):
           if a[i]==b[i]:
               break
       print(c) # will give true if equal, false if they are not equal
 12
                                 TERMINAL
PS C:\Users\prana\OneDrive\Documents\Task-8> python -u "c:\Users\prana\OneDrive\Documents\Task-8\program2.py"
PS C:\Users\prana\OneDrive\Documents\Task-8>
program2.py X program4.py
                                   program5.py
                                                     program3.py
                                                                       program1.py
Task-8 > 🍖 program2.py > ...
     import numpy as np
      a=np.array([1,2,3,4,5])
      b=np.array([1,2,3,4,5])
      for i in range(0,a.__len__()):
           if a[i]==b[i]:
               c=False
               break
       print(c)
 12
                   DEBUG CONSOLE
                                  TERMINAL
PS C:\Users\prana\OneDrive\Documents\Task-8> python -u "c:\Users\prana\OneDrive\Documents\Task-8\program2.py"
PS C:\Users\prana\OneDrive\Documents\Task-8>
```

### **Output of Question 3:**

```
program2.py
                program4.py
                                  program5.py
                                                   program3.py X
                                                                    program1.py
Task-8 > 🍖 program3.py
  1 import numpy as np
  print(0 * np.nan)
  3 print(np.nan != np.nan)
  4 print(np.inf > np.nan)
  5 print(np.nan - np.nan)
      print(0.3 == 3 * 0.1)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\prana\OneDrive\Documents\Task-8> python -u "c:\Users\prana\OneDrive\Documents\Task-8\program3.py"
True
False
nan
PS C:\Users\prana\OneDrive\Documents\Task-8>
```

nan means not a number and inf means floating point representation of positive infinity.

# **Output of Question 4:**

### **Output of Question 5:**

```
program2.py
                 program4.py
                                  program5.py X program3.py
                                                                     program1.py
Task-8 > 🍖 program5.py > ...
  1 import numpy as np
      a=np.array([1,2,3,4,5])
    b=np.array([4,2,3,4,5])
  4 print('the sum of both array is',a+b,'\n')
  5 print('the product of both array is',a*b, '\n')
  6 c=np.identity(2,dtype=int)
     print('the identity matrix is: \n')
      print(c)
                               TERMINAL
PS C:\Users\prana\OneDrive\Documents\Task-8> python -u "c:\Users\prana\OneDrive\Documents\Task-8\program5.py"
the sum of both array is [ 5 4 6 8 10]
the product of both array is [ 4 4 9 16 25]
the identity matrix is:
[[1 0]
 [0 1]]
PS C:\Users\prana\OneDrive\Documents\Task-8>
```

## Done by,

Pranav A N [ch.en.u4cys21056]