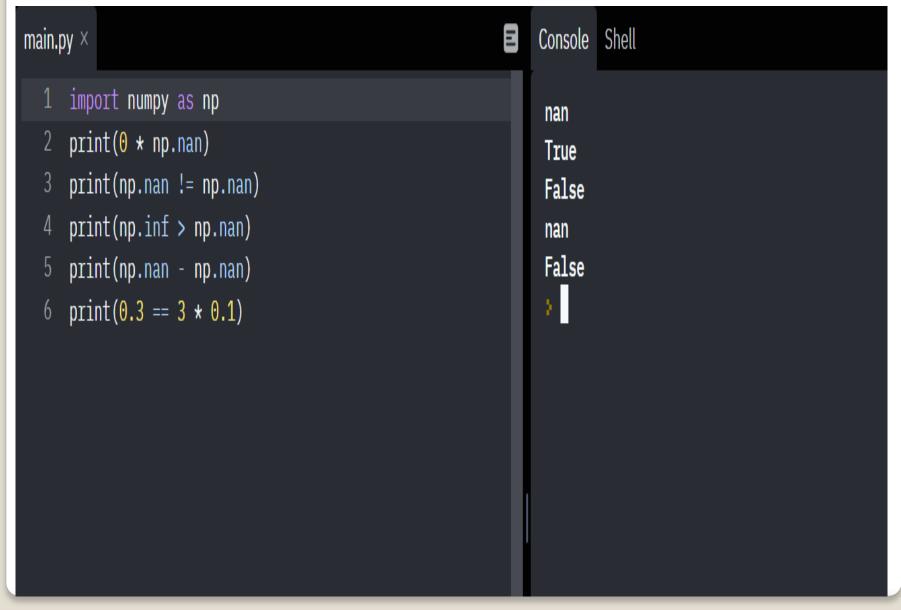
# TASK-8

# CHARISHMA LOTTI U4CYS21010

```
Console Shell
main.py X
     import numpy as np
                                                             given vector = [10 11 12 13 14]
  2 given_vector = np.array([10,11,12,13,14])
                                                             final vector = [10. 0. 0. 0. 0. 0. 11. 0. 0. 0. 0.
  3 msg = f'given vector = {given_vector}'
                                                               0. 12. 0. 0. 0. 0. 0.
     print(msg)
                                                              13. 0. 0. 0. 0. 0. 14.]
     final_vector = np.zeros(len(given_vector) +
     (len(given_vector)-1)*5)
     final_vector[::6] = given_vector
     fin = f'final vector = {final_vector}'
     print(fin)
```

```
main.py ×
                                                                Console Shell
     import numpy as np
                                                                enter the elements of 1st vector
  2 # the arrays vector1 and vector2 are given some
                                                                : 1
     dummy elements at first
  3 vector1 = np.array([0, 0, 0, 0, 0])
  4 i = 0
     print("enter the elements of 1st vector")
                                                                 enter the elements of 2nd vector
  6 v while i <= 4:
                                                                 : 6
       vector1[i] = input(": ")
      i +=1
 10 vector2 = np.array([0, 0, 0, 0, 0])
                                                                 : 5
     print("enter the elements of 2nd vector")
                                                                False
 12 k = 0
 13 <sub>v</sub> while k <= 4:
       vector2[k] = input(": ")
       k +=1
     print(np.allclose(vector1, vector2))
```



```
Console Shell
main.py X
     import numpy as np
                                                              Have A Good Day
    import pandas as pd
     comment = pd.Series(['have', 'a', 'good', 'day'])
  5 Title = comment.str.title()
     print(Title[0], Title[1], Title[2], Title[3])
```

## Q5:(1)

```
Console Shell
main.py X
  1 import numpy as np
                                                            [[4 6 4]
  2 array1 = np.array([[1,2,-2], [2,3,4], [5,-6,8]])
                                                             [8 0 12]
  3 array2 = np.array([[3,4,6], [6,-3,8], [2,1,-1]])
                                                             [7-57]]
     print(array1 + array2)
```

## Q5:(7)

```
Console Shell
main.py ×
     import numpy as np
                                                                the indices where the elements of 2 arrays match are :
     array1 = np.array([1,2,3,4,5,6,12,7,20])
     array2 = np.array([3,2,5,4,11,5,0,8,20])
     print("the indices where the elements of 2 arrays
     match are :")
  5_{v} for i in range(9):
       if array1[i] == array2[i]:
        print(i)
```