

```
# Miles to kilometer (1km = 0.621371 miles)
     miles = int(input("Enter miles = "))
     km = miles / 0.621371
     print("Mile = ",miles)
     print("kilometeres = ",km)
     demo2
"C:\Users\Anitha Rai\PycharmProjects\Assignment1\venv\Scripts\python.exe" "C:\Users\Anitha Rai\PycharmProjects\Assignment1\demo
Enter miles = 10
Mile = 10
kilometeres = 16.093444978925632
Process finished with exit code 0
signment1 > 👘 demo2.py
```

demo6.py

demo1.py

demo2.py × eg demo7.py

demo10.pv

demo11.py

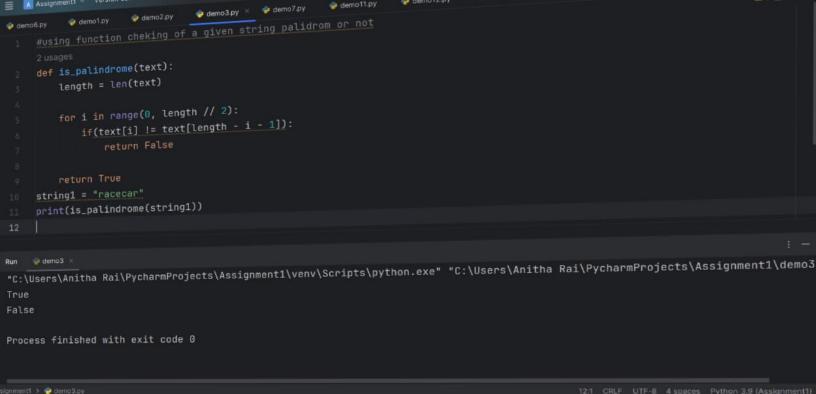
demo12.py

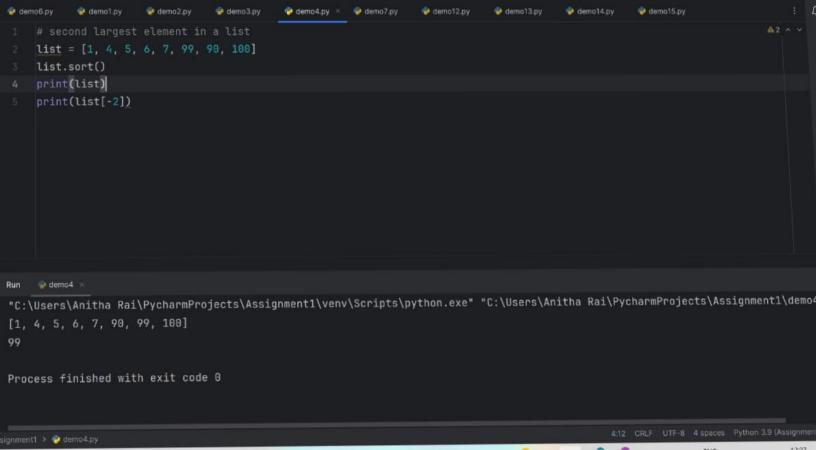
demo13.py

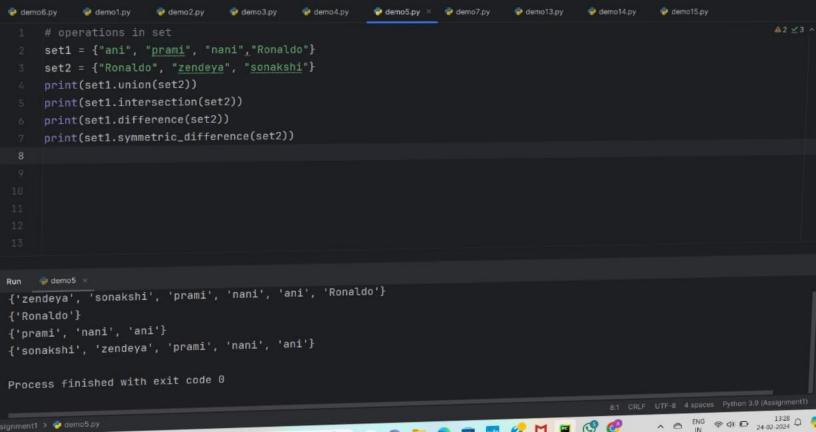
demo14.py

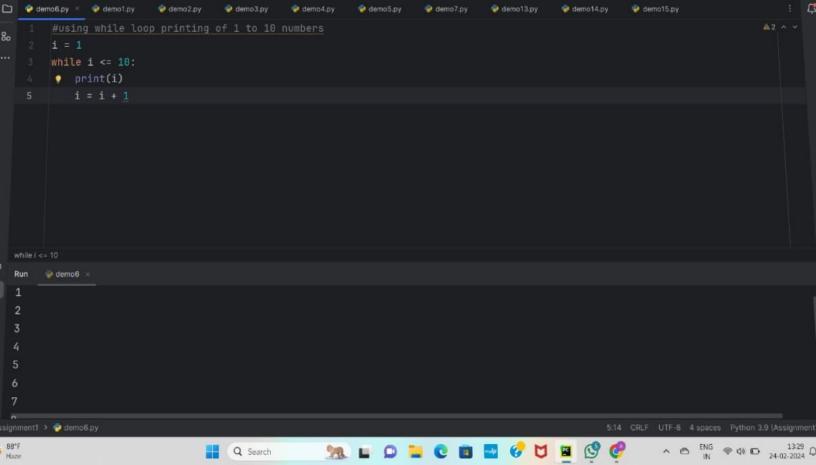
demo15.py

def is\_palindrome(text): length = len(text) for i in range(0, length // 2): if(text[i] != text[length - i - 1]): return False return True string1 = "racecar" print(is\_palindrome(string1)) string1 = "abceba" print(is\_palindrome(string1)) Ð Σ 🗆 Assignment1 🗦 🜍 demo3.py \_ \_ FNG ---

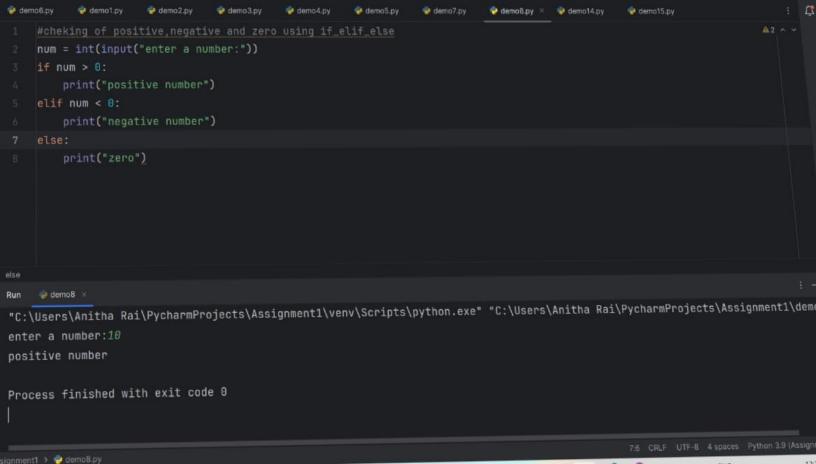




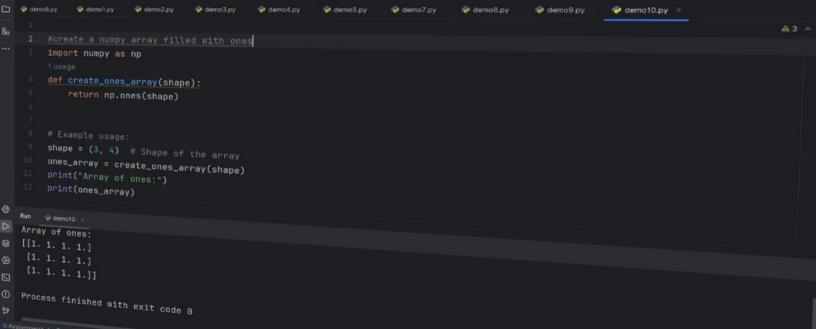




```
va.Comeb 💝
          demo1.py
                     demo2.py
                                            demo4.pv
                                                       demo5.py
                                                                  demo7.py ×
                                                                              demo13.py
                                                                                          demo14.py
                                                                                                       va.21cmeb 😻
    num = int(input("enter a number:"))
    fact = 1
    while(num > 0):
        fact = fact * num
        num = num - 1
Run
    demo7 ×
"C:\Users\Anitha Rai\PycharmProjects\Assignment1\venv\Scripts\python.exe" "C:\Users\Anitha Rai\PycharmProjects\Assignment1\demo
factorial of a number: 120
Process finished with exit code 0
```



```
demo7.py
                                                                                 demo8.py
 demo6.py
             demo1.py
                        demo2.py
                                    demo3.pv
                                               demo4.pv
                                                           demo5.py
                                                                                            demo9.py × demo15.py
       #finding largest among three numbers uding conditional statements
       n1 = int(input("enter a number:"))
       n2 = int(input("enter a number:"))
       n3 = int(input("enter a number:"))
       if n1 > n2 and n1 > n3:
           largest = n1
       elif n2 > n1 and n2 > n3:
           largest = n2
           largest = n3
       print("largest among {} {} and {} is {}".format( args n1, n2, n3, largest))
 else
      demo9 >
 enter a number:10
 enter a number:20
 enter a number:30
 largest among 10 20 and 30 is 30
 Process finished with exit code θ
                                                                                                9.6 CRLF UTF-8 4 spaces Python 3.9 (Assignment1)
                                                                                                        A □ ENG ♥ Ø) □ 24-02-2024 □
Assignment1 > 🥎 demo9.py
                                                              _ _ _ M M M M M
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```
shape = (3, 4) # Shape of the array
      random_array = create_random_array(shape)
      print(random_array)
     demo11
 2D Array initialized with random integers:
 [[6 4 9 3]
  [5 6 8 5]
  [3 9 4 9]]
 Process finished with exit code 0
                                                                                   12:1 CRLF UTF-8 4 spaces Python 3.9 (Assignment1)
                                                                                          Assignment1 > 📀 demo11.py
```

	e demo	6.ру 💝 d	lemo3.py	demo4.py	demo5.py	demo7.py	demo8.py	demo9.py	demo10.py	demo11.py	🕏 demo12.py ×	
8.		import n 1 usage def gene	umpy as	np space(start	Ly spaced n t, stop, nu rt, stop, nu	m):	a specified	range using	] linespace			<b>∆</b> 5 <u>⊻</u> 4
		stop = 10 num = 5 linspace	9 # Star 9 # End # Number _array =	value of t of sample generate_l	inspace(sta							
ø	Run	demo12 ×										
4 ⊕ N □	"C:\U Array [ 0.	sers\Anit of evenl 2.5 5.	y spaced 7.5 1	numbers us	sing linspac		cripts\python	n.exe" "C:\U	sers\Anitha	Rai\Pycharmi	Projects\Assign	ment1\demo1

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va.8omeb 🚭
            demo4.pv
                       demo5.pv
                                   demo7.py
                                              demo8.pv
                                                         demo9.py
                                                                     demo10.py
                                                                                demol1.py
                                                                                            demo12.py
                                                                                                        demo13.py ×
      #python program generate an array off 10 equally spaced values between 1 and 100 using linspace
      import numpy as np
      equally_spaced_values = np.linspace( start 1, stop: 100, num: 10)
      print("Array of 10 equally spaced values between 1 and 100:")
       print(equally_spaced_values)
  Run
       demo13 ×
   "C:\Users\Anitha Rai\PycharmProjects\Assignment1\venv\Scripts\python.exe" "C:\Users\Anitha Rai\PycharmProjects\Assignment1\demo1
  Array of 10 equally spaced values between 1 and 100:
   [ 1. 12. 23. 34. 45. 56. 67. 78. 89. 100.]
   Process finished with exit code 0
O Assignment1 > 😋 demo13.py
```

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demo6.pv
            demo5.pv
                        demo7.nv
                                    demo8.pv
                                               demo9 nv
                                                           demo10.nv
                                                                       demoit ny
                                                                                  demo12 nv
                                                                                              damo13 nv
                                                                                                          demo14.pv ×
       #write a python program to create an array containing even numbers from 2 to 20 using arrange
       import numpy as np
       even numbers = np.arange(2, 21, 2)
        print("Array containing even numbers from 2 to 20:")
        print(even numbers)
        demo14 ×
  Run
   "C:\Users\Anitha Rai\PycharmProjects\Assignment1\venv\Scripts\python.exe" "C:\Users\Anitha Rai\PycharmProjects\Assignment1\demoi
   Array containing even numbers from 2 to 20:
   [ 2 4 6 8 10 12 14 16 18 20]
   Process finished with exit code 0
①
29
☐ Assignment1 > 🧓 demo14.py
                                                                                                               TNIS 13:37 O
                                                                                              -0
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demo8.py
                             demo9.pv
                                        demo10.gy
                                                   demo11.py
                                                              demo12.py
                                                                                                                                    []
                                                                          demo13.pv
                                                                                       demo14.pv
                                                                                                    demo15.pv ×
    #python program to create an array containing numbers from 1 to 10 using with a step size of 0.5 using arrange
    import numpy as np
    numbers = np.arange(1, 10.5, 0.5)
    print("Array containing numbers from 1 to 10 with a step size of 0.5:")
    print(numbers)
"C:\Users\Anitha Rai\PycharmProjects\Assignment1\venv\Scripts\python.exe" "C:\Users\Anitha Rai\PycharmProjects\Assignment1\demo1{}
[1. 1.5 2. 2.5 3. 3.5 4. 4.5 5. 5.5 6. 6.5 7.
```



In essence, indentation helps Python know the structure of your code, like where loops, conditionals, functions, and other blocks of code begin and end. It's a fundamental part of how Python organizes and





275 characters

Edit View

Q]Explain indentation means in python.

































Simple lava Anitha Prami. Simple lava Simple lava Anitha Prami. Anitha lava Anitha Prami. Anitha lava prame • Forensics in C properties of Completaver. Water quality titlet













