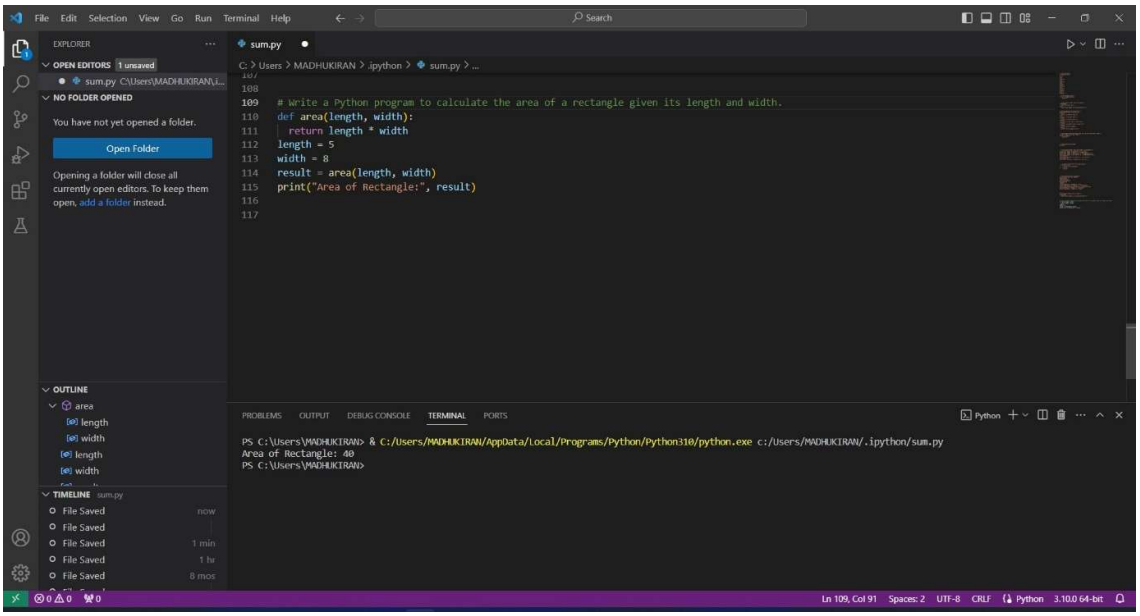
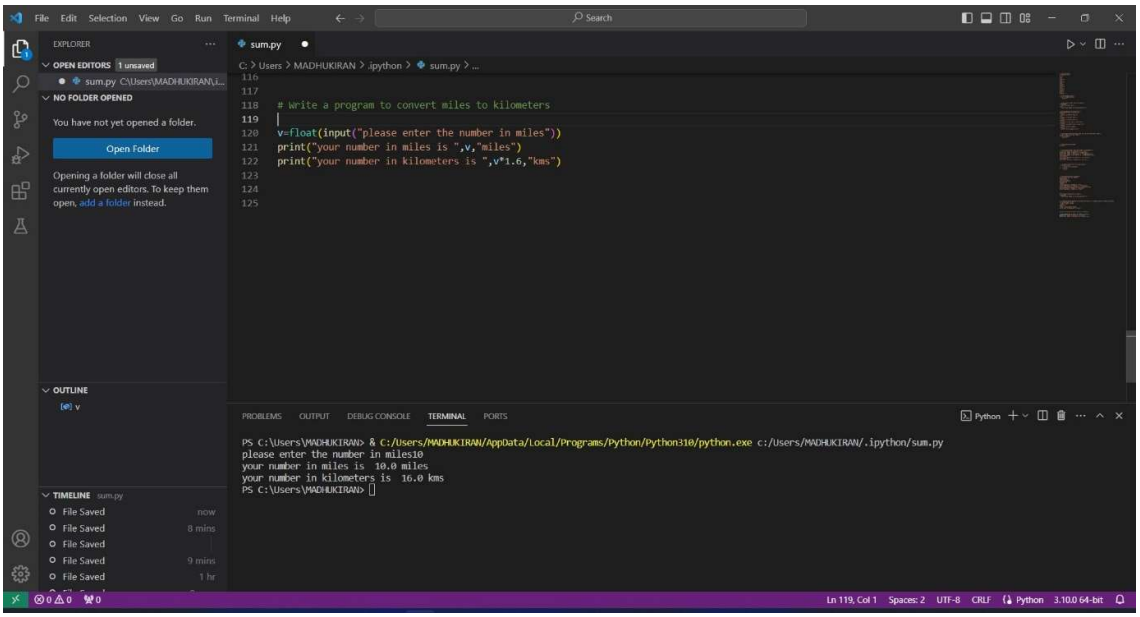
ASSIGNMENT-1

1)

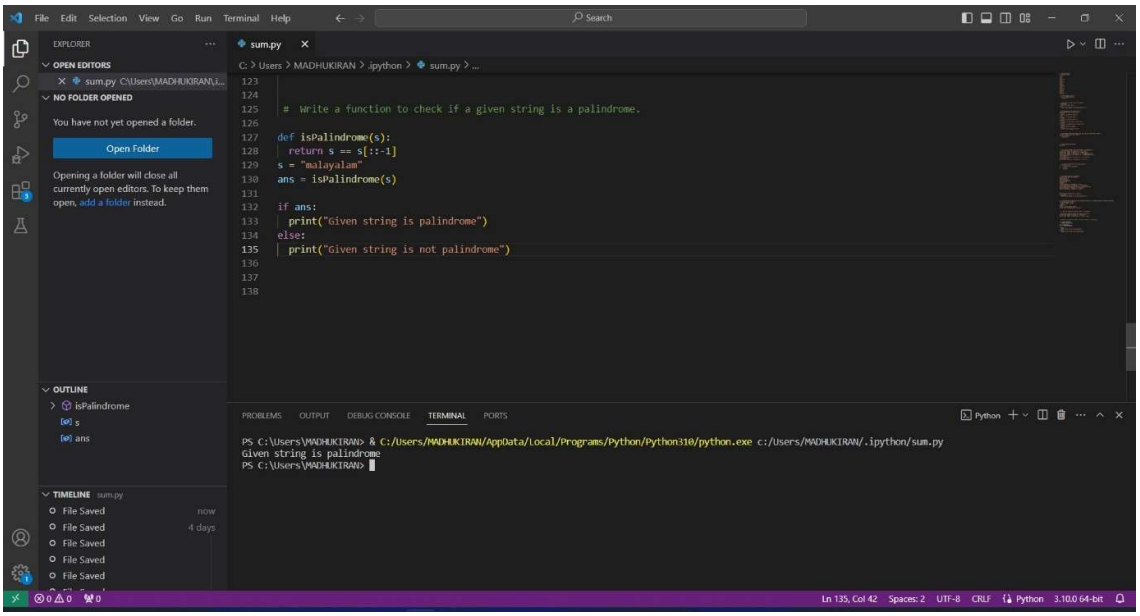


2)

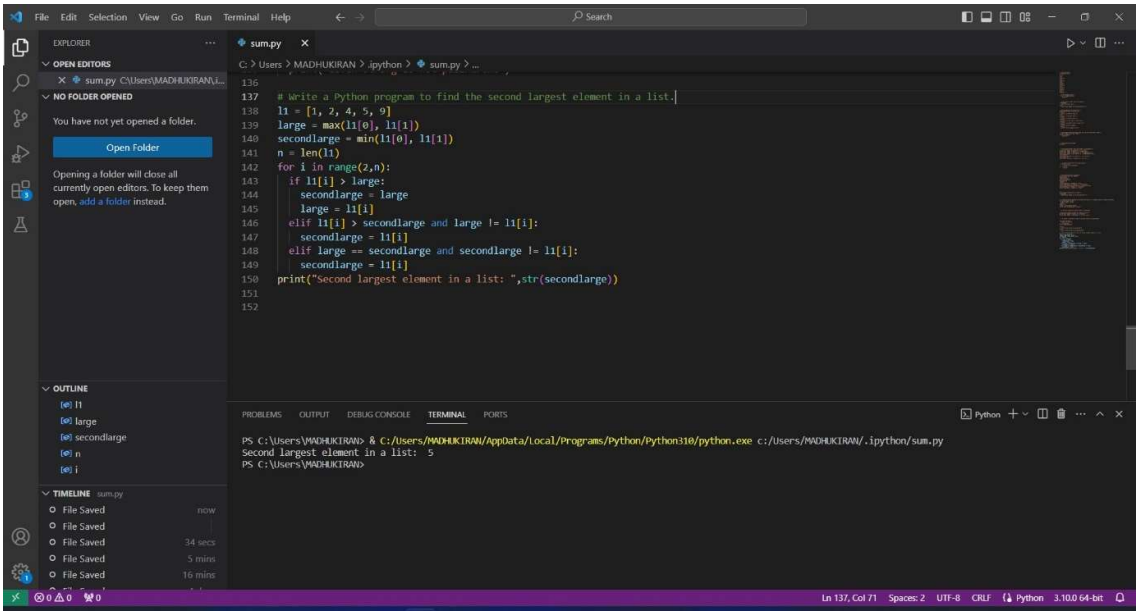


ASSIGNMENT-1

3)

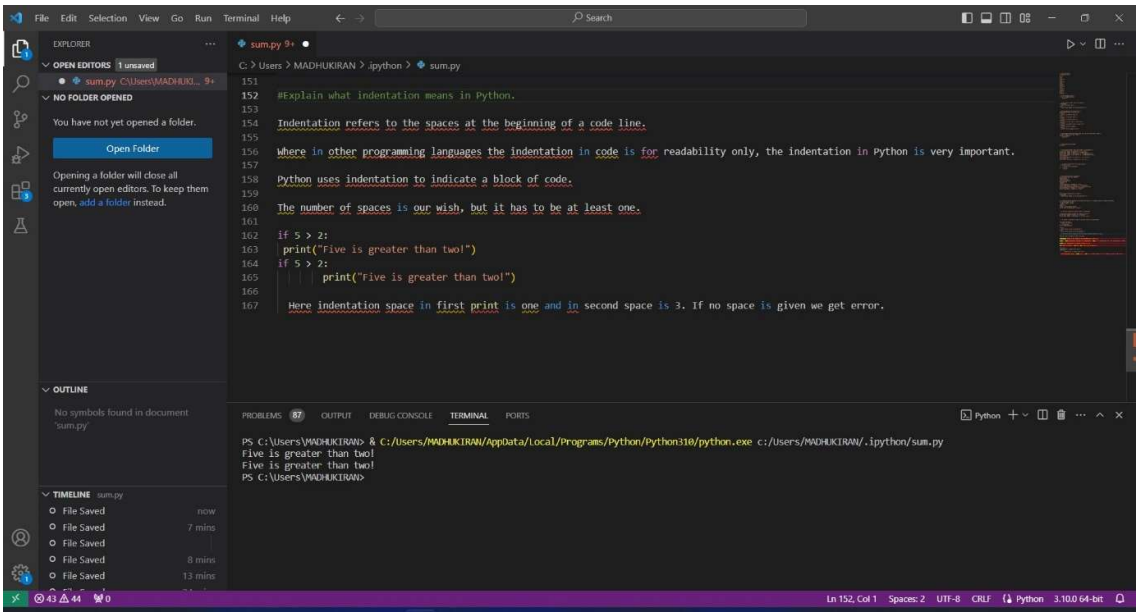


4)

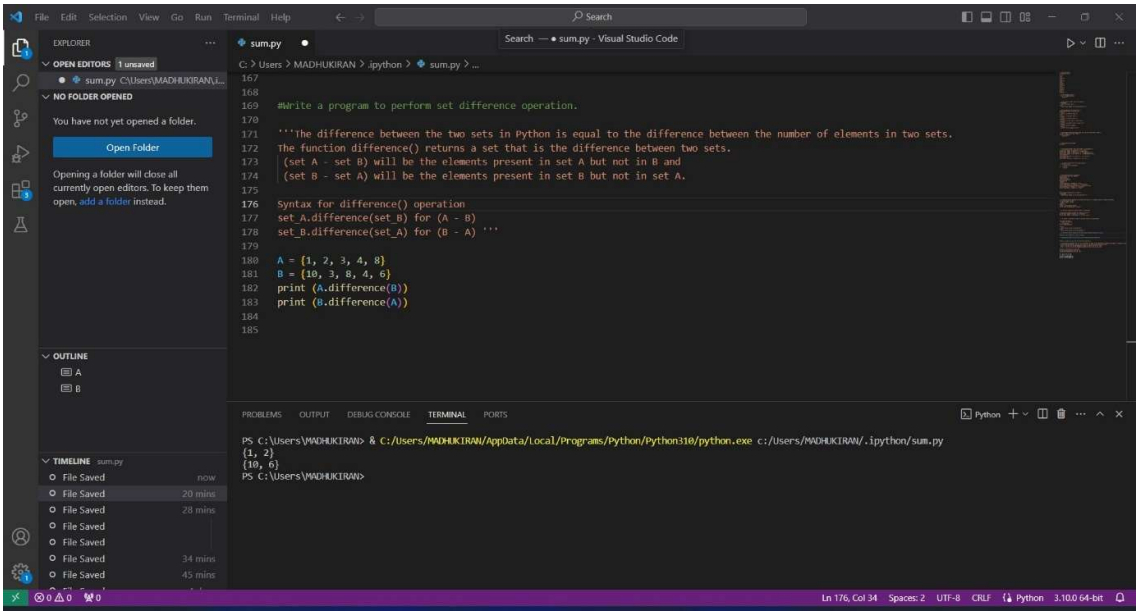


ASSIGNMENT-1

5)

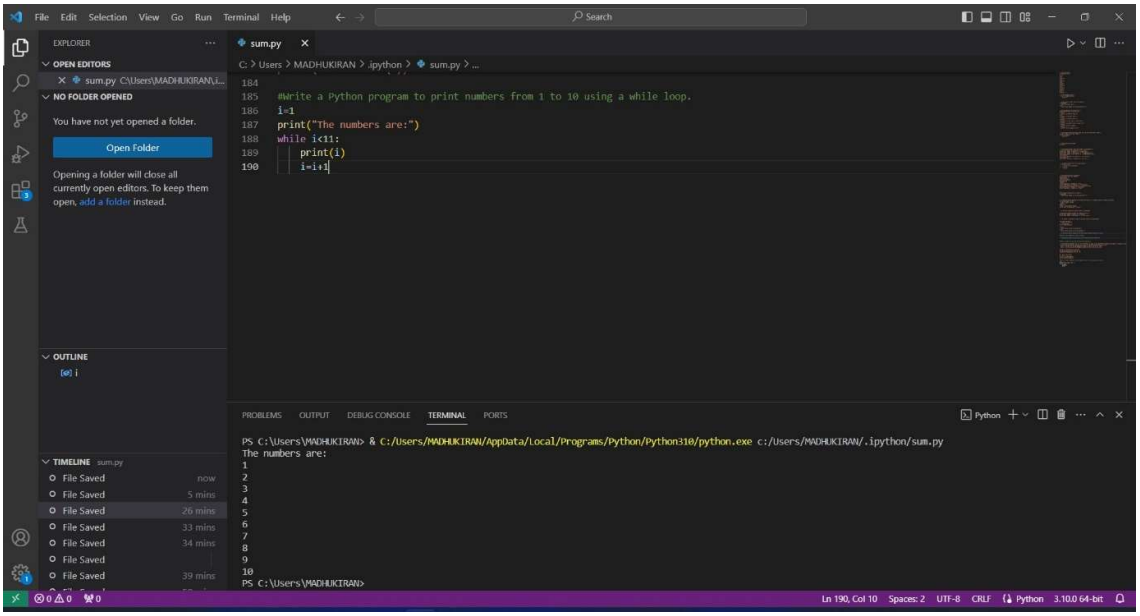


6)

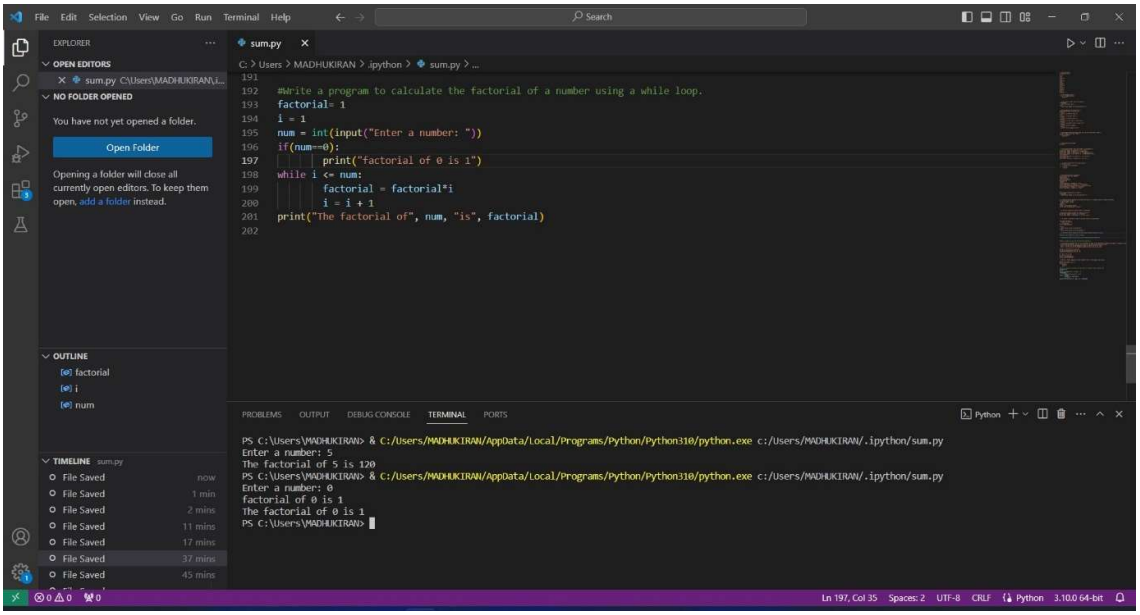


ASSIGNMENT-1

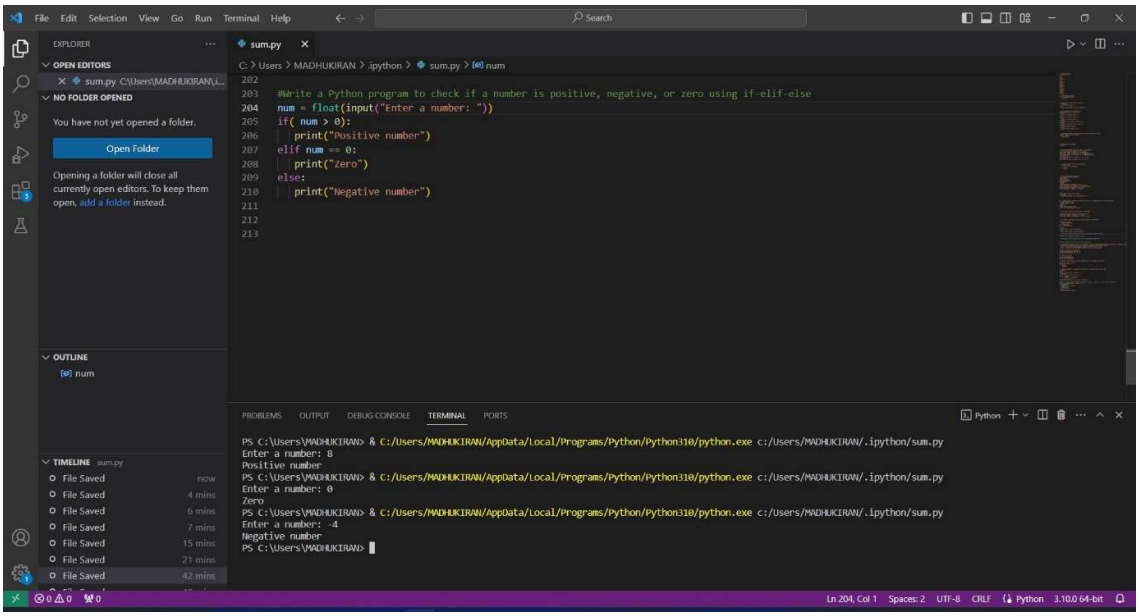
7)



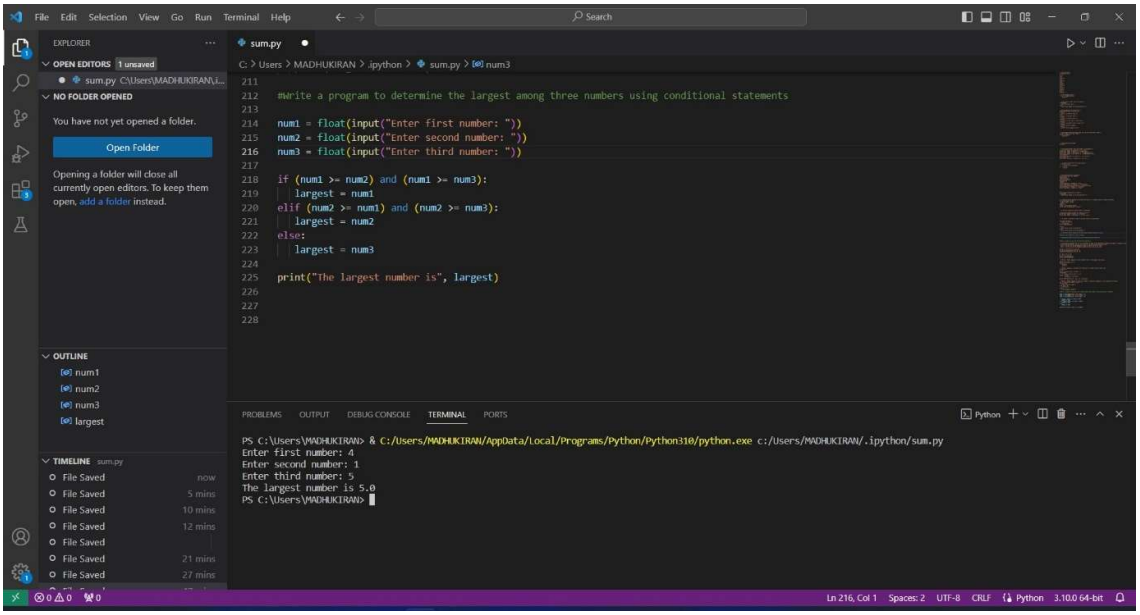
8)



9)

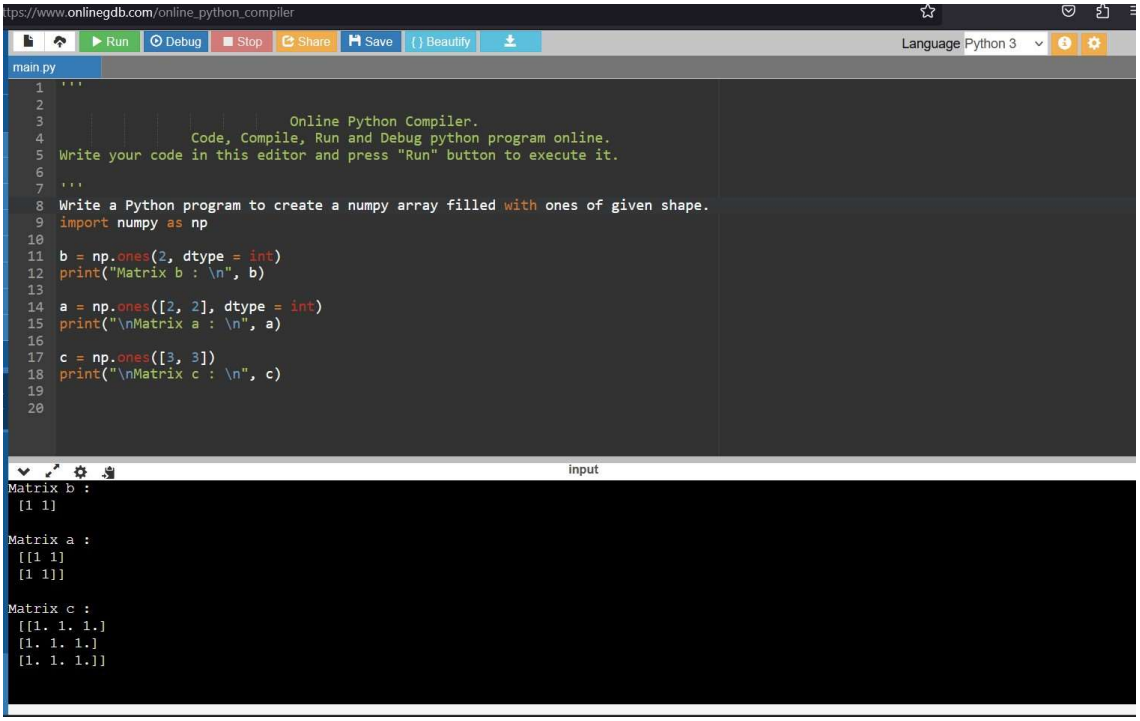

#Write a Python program to check if a number is positive, negative, or zero using if-elif-else
num = float(input("Enter a number: "))
if(num > 0):
print("Positive number")
elif num == 0:
print("Zero")
else:
print("Negative number")
PS C:\Users\MADHUKIRAN> & C:/Users/MADHUKIRAN/AppData/Local/Programs/Python/Python310/python.exe c:/Users/MADHUKIRAN/.ipython/sum.py
Enter a number: 8
Positive number
PS C:\Users\MADHUKIRAN> & C:/Users/MADHUKIRAN/AppData/Local/Programs/Python/Python310/python.exe c:/Users/MADHUKIRAN/.ipython/sum.py
Enter a number: 0
Zero
PS C:\Users\MADHUKIRAN> & C:/Users/MADHUKIRAN/AppData/Local/Programs/Python/Python310/python.exe c:/Users/MADHUKIRAN/.ipython/sum.py
Enter a number: -4
Negative number
PS C:\Users\MADHUKIRAN>

10)

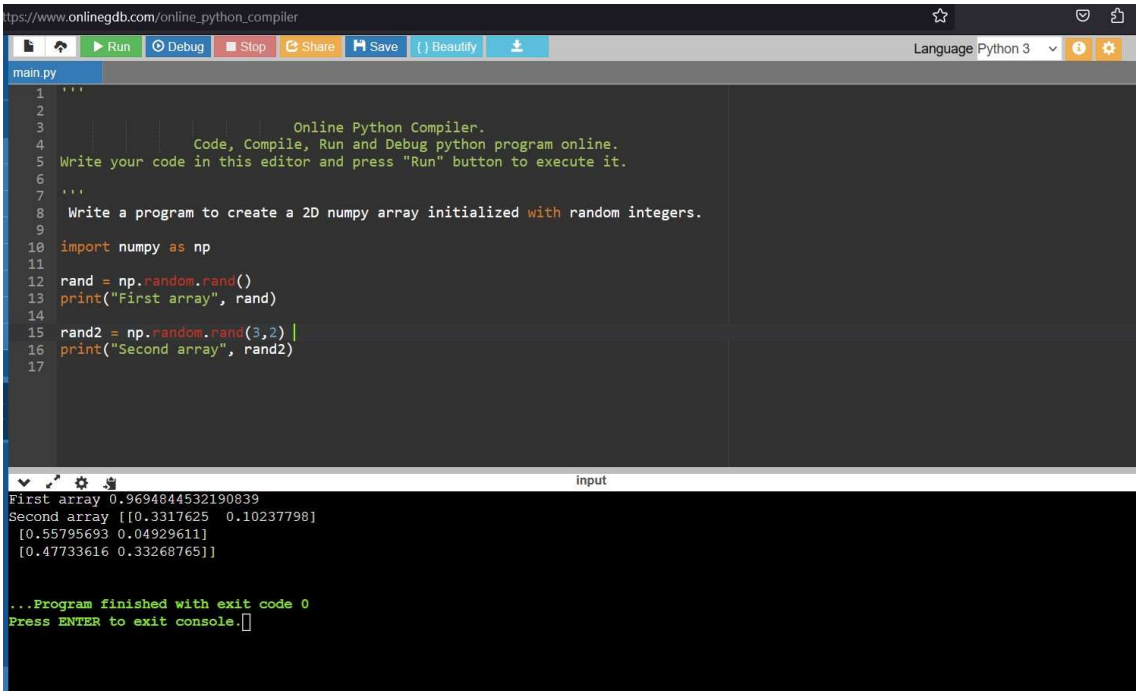

#Write a program to determine the largest among three numbers using conditional statements
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))
if (num1 >= num2) and (num1 >= num3):
largest = num1
elif (num2 >= num1) and (num2 >= num3):
largest = num2
else:
largest = num3
print("The largest number is", largest)
PS C:\Users\MADHUKIRAN> & C:/Users/MADHUKIRAN/AppData/Local/Programs/Python/Python310/python.exe c:/Users/MADHUKIRAN/.ipython/sum.py
Enter first number: 4
Enter second number: 1
Enter third number: 5
The largest number is 5.0
PS C:\Users\MADHUKIRAN>

ASSIGNMENT-1

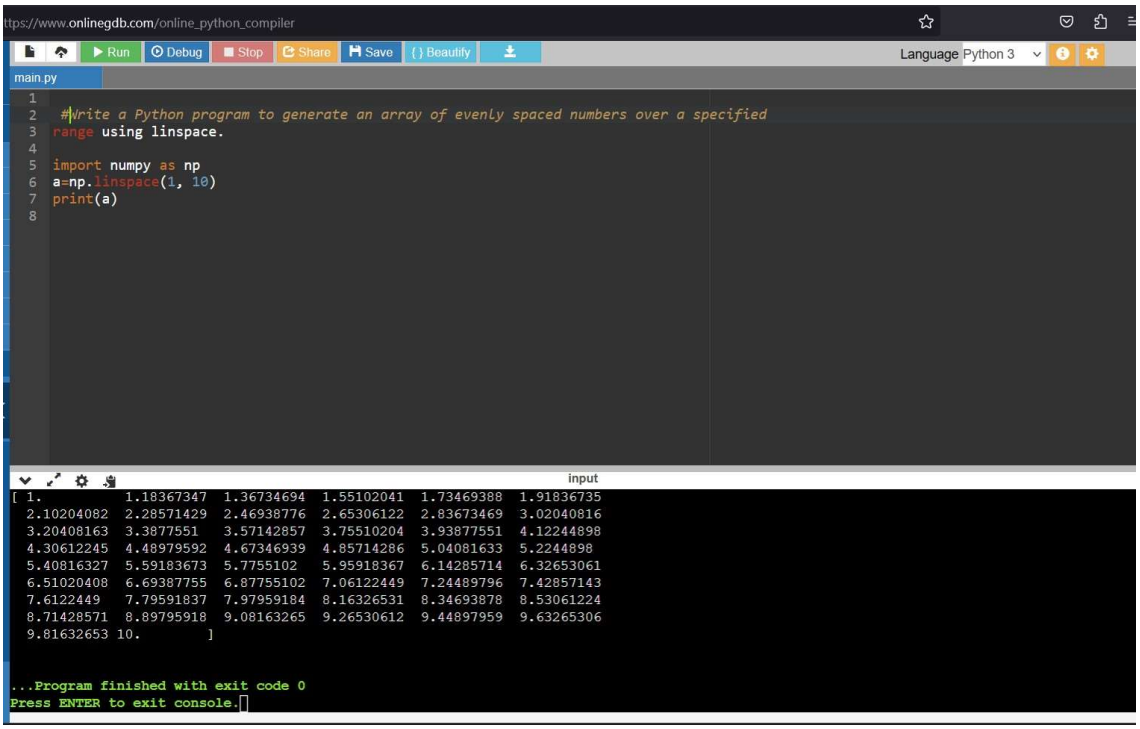
11)



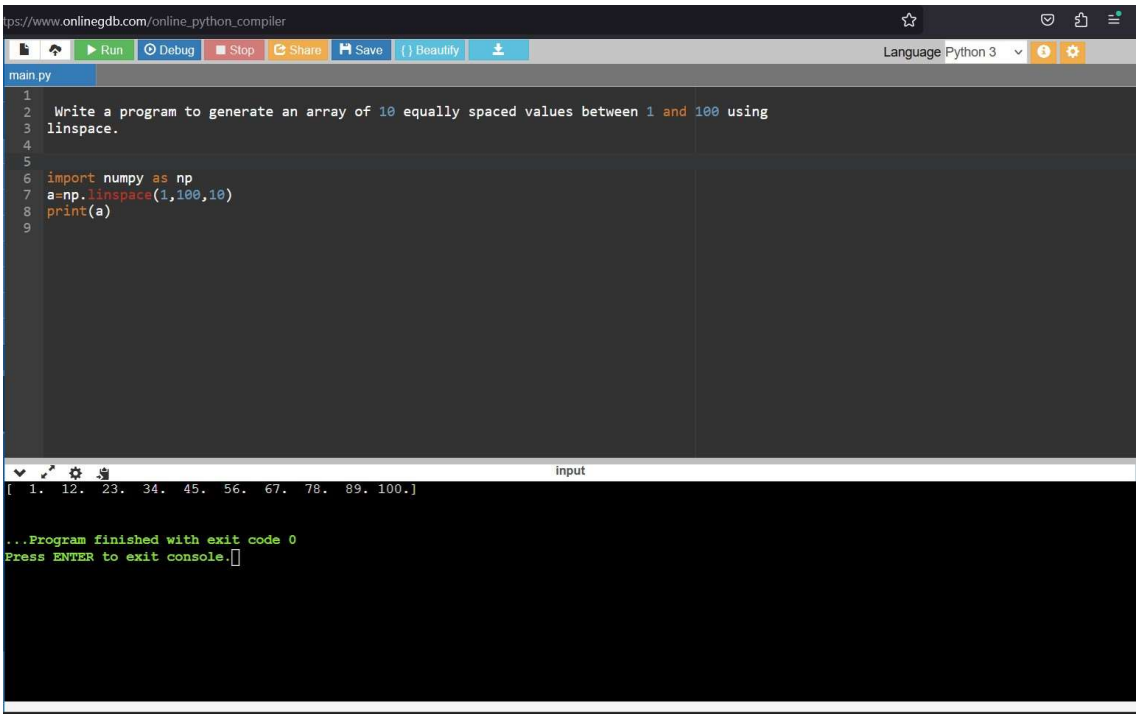
12)



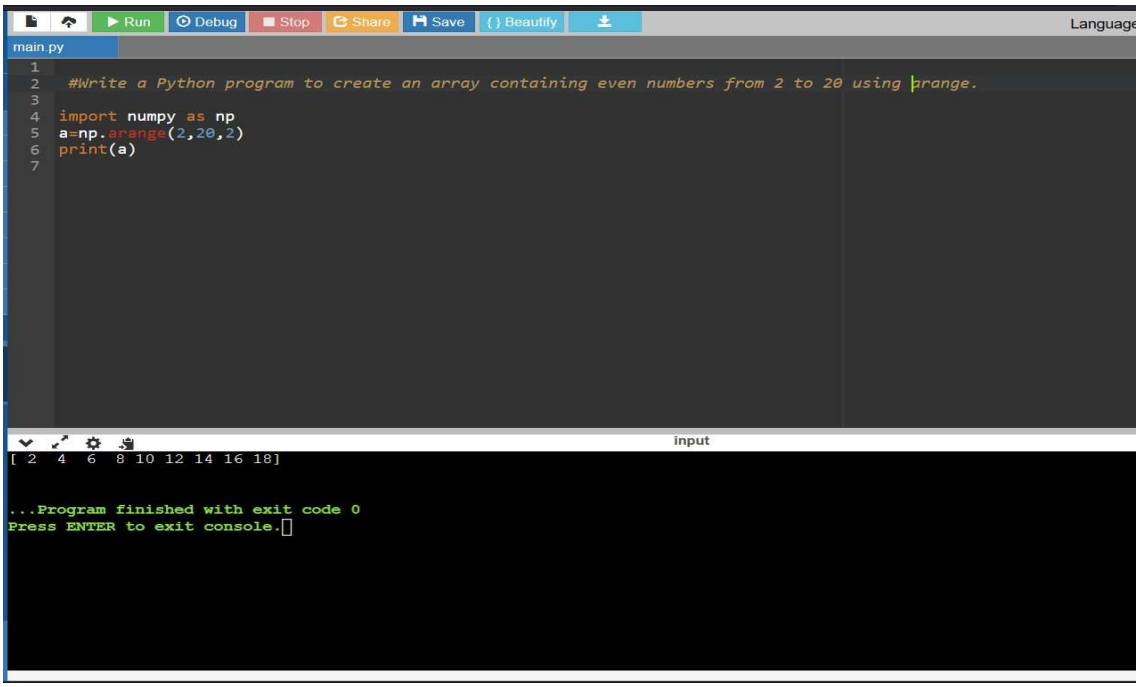
13)


ttps://www.onlinegdb.com/online_python_compiler
Run
Debug
Stop
Share
Save
{ } Beautify
Language Python 3
main.py
#Write a Python program to generate an array of evenly spaced numbers over a specified range using linspace.
import numpy as np
a=np.linspace(1, 10)
print(a)
input
[1. 1.18367347 1.36734694 1.55102041 1.73469388 1.91836735
2.10204082 2.28571429 2.46938776 2.65306122 2.83673469 3.02040816
3.20408163 3.3877551 3.57142857 3.75510204 3.93877551 4.12244898
4.30612245 4.48979592 4.67346939 4.85714286 5.04081633 5.2244898
5.40816327 5.59183673 5.7755102 5.95918367 6.14285714 6.32653061
6.51020408 6.69387755 6.87755102 7.06122449 7.24489796 7.42857143
7.6122449 7.79591837 7.97959184 8.16326531 8.34693878 8.53061224
8.71428571 8.89795918 9.08163265 9.26530612 9.44897959 9.63265306
9.81632653 10.]
...Program finished with exit code 0
Press ENTER to exit console.

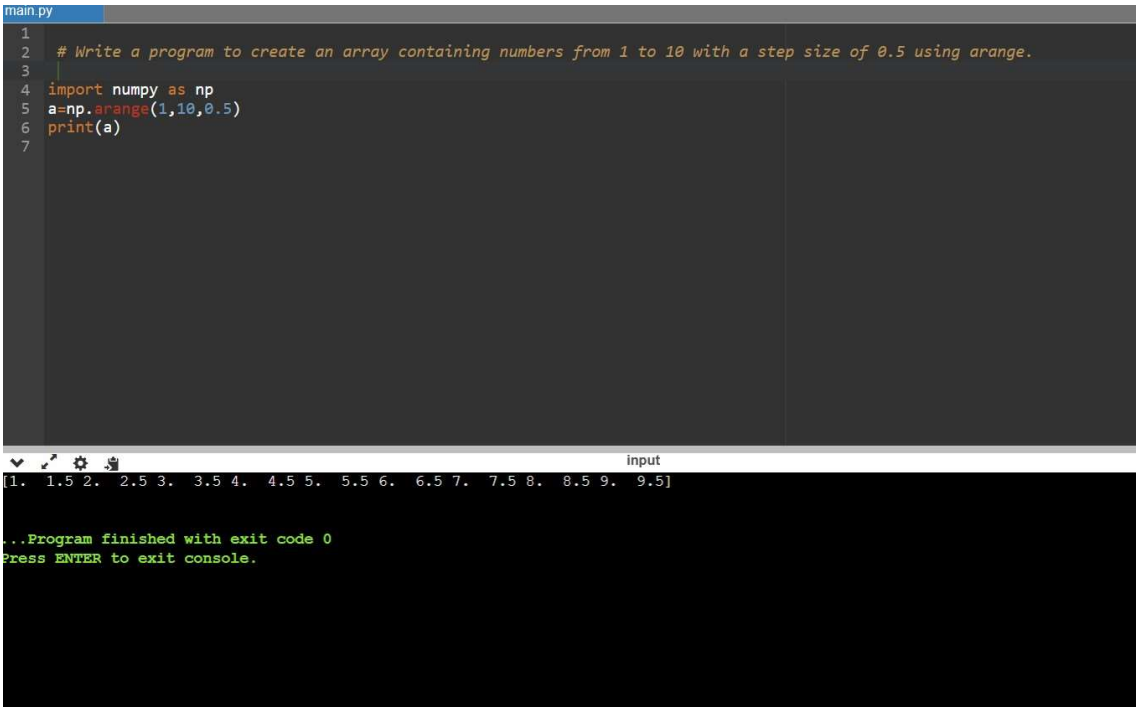
14)


tps://www.onlinegdb.com/online_python_compiler
Run
Debug
Stop
Share
Save
{ } Beautify
Language Python 3
main.py
Write a program to generate an array of 10 equally spaced values between 1 and 100 using linspace.
import numpy as np
a=np.linspace(1,100,10)
print(a)
input
[1. 12. 23. 34. 45. 56. 67. 78. 89. 100.]
...Program finished with exit code 0
Press ENTER to exit console.

15)


Run
Debug
Stop
Share
Save
{ } Beautify
Language
main.py
#Write a Python program to create an array containing even numbers from 2 to 20 using arange.
import numpy as np
a=np.arange(2,20,2)
print(a)
input
[2 4 6 8 10 12 14 16 18]
...Program finished with exit code 0
Press ENTER to exit console.

16)


main.py
# Write a program to create an array containing numbers from 1 to 10 with a step size of 0.5 using arange.
import numpy as np
a=np.arange(1,10,0.5)
print(a)
input
[1. 1.5 2. 2.5 3. 3.5 4. 4.5 5. 5.5 6. 6.5 7. 7.5 8. 8.5 9. 9.5]
...Program finished with exit code 0
Press ENTER to exit console.