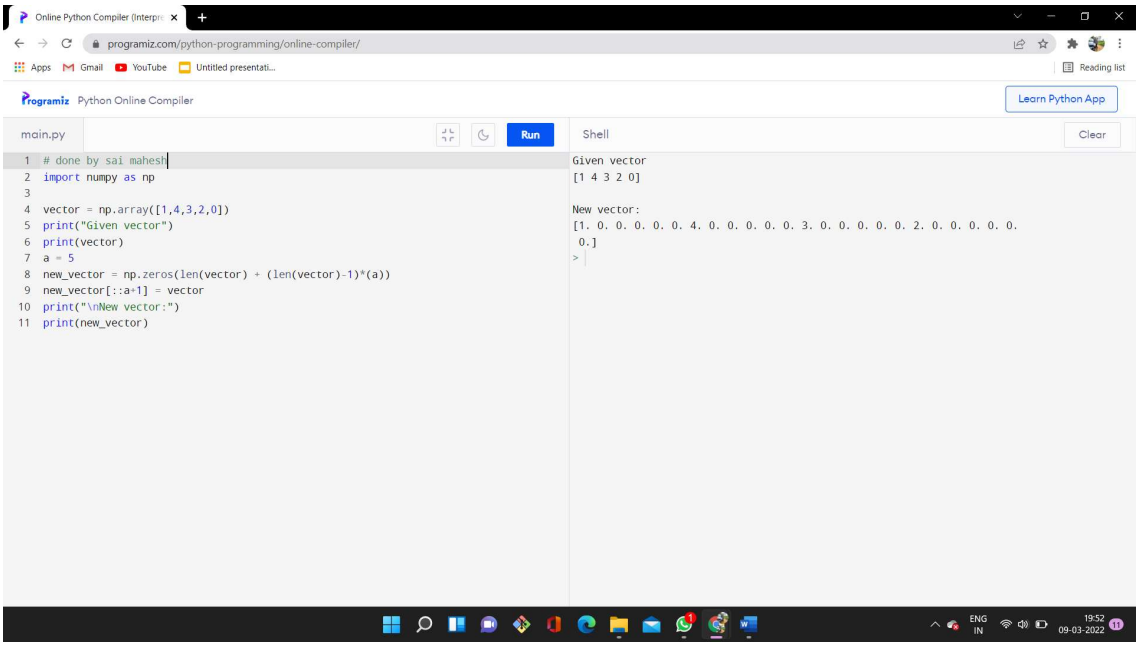
Task 8

Q1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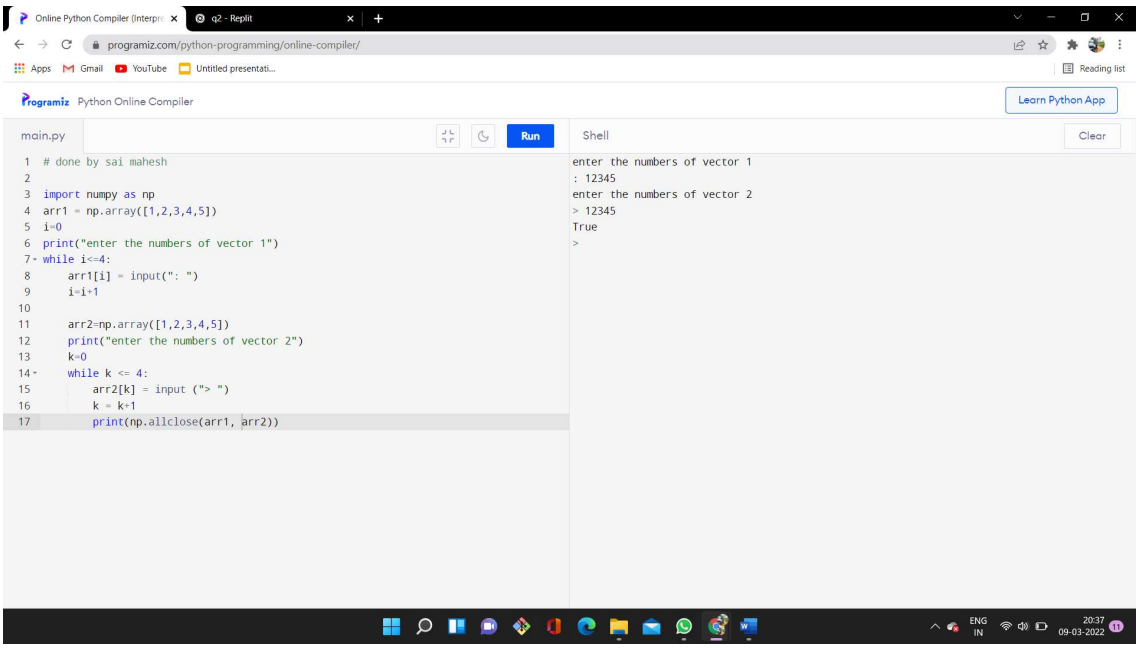
Reading list
Programiz Python Online Compiler
Learn Python App
main.py
Run
Shell
Clear
# done by sai mahesh
import numpy as np
vector = np.array([1,4,3,2,0])
print("Given vector")
print(vector)
a = 5
new_vector = np.zeros(len(vector) + (len(vector)-1)*(a))
new_vector[::a+1] = vector
print("\nNew vector:")
print(new_vector)
Given vector
[1 4 3 2 0]
New vector:
[1. 0. 0. 0. 0. 0. 4. 0. 0. 0. 0. 0. 3. 0. 0. 0. 0. 0. 2. 0. 0. 0. 0. 0.
0.]
ENG
IN
19:52
09-03-2022

Q2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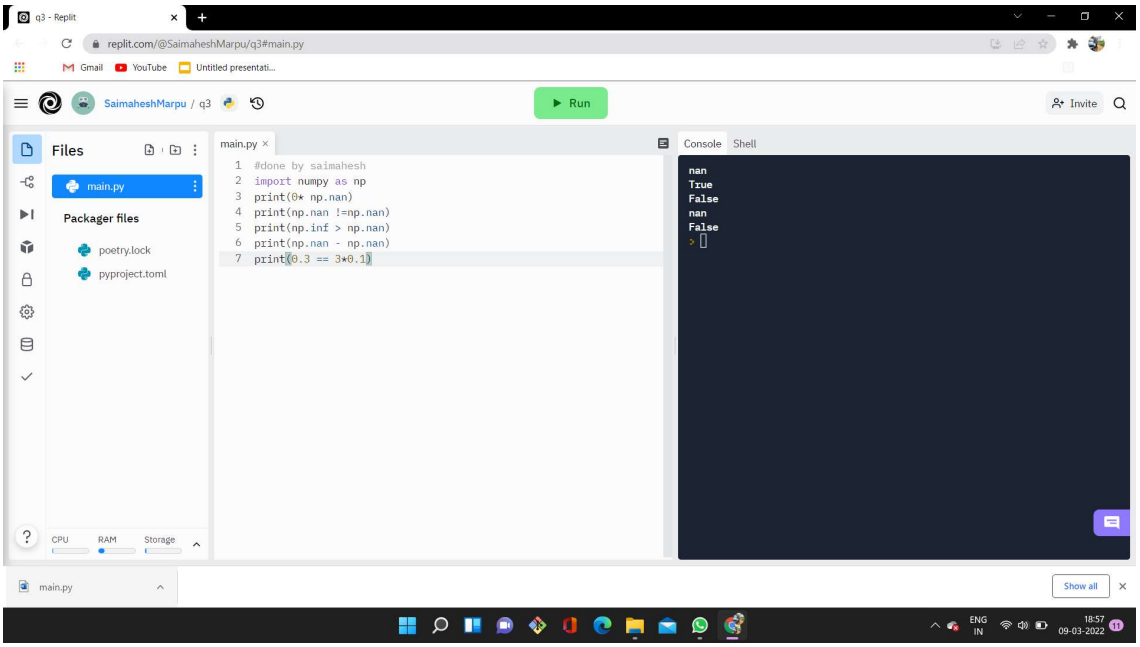
Reading list
Programiz Python Online Compiler
Learn Python App
main.py
Run
Shell
Clear
# done by sai mahesh
import numpy as np
arr1 = np.array([1,2,3,4,5])
i=0
print("enter the numbers of vector 1")
while i<=4:
arr1[i] = input(": ")
i=i+1
arr2=np.array([1,2,3,4,5])
print("enter the numbers of vector 2")
k=0
while k <= 4:
arr2[k] = input ("> ")
k = k+1
print(np.allclose(arr1, arr2))
enter the numbers of vector 1
: 12345
enter the numbers of vector 2
> 12345
True
ENG
IN
20:37
09-03-2022

Q3


q3 - Replit
replit.com/@SaimaheshMarpu/q3#main.py
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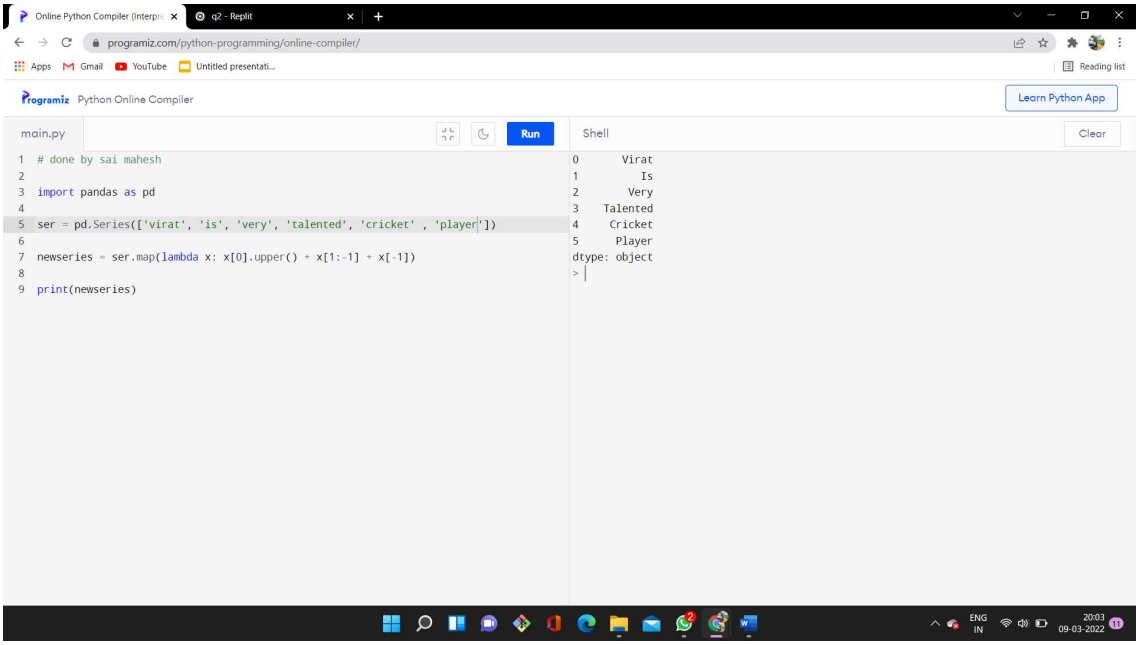
SaimaheshMarpu / q3
Run
Invite
Files
main.py
Packager files
poetry.lock
pyproject.toml
CPU
RAM
Storage
main.py
#done by saimahesh
import numpy as np
print(0* np.nan)
print(np.nan !=np.nan)
print(np.inf > np.nan)
print(np.nan - np.nan)
print(0.3 == 3*0.1)
Console
Shell
nan
True
False
nan
False
Show all
ENG
IN
18:57
09-03-2022

Q4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Reading list
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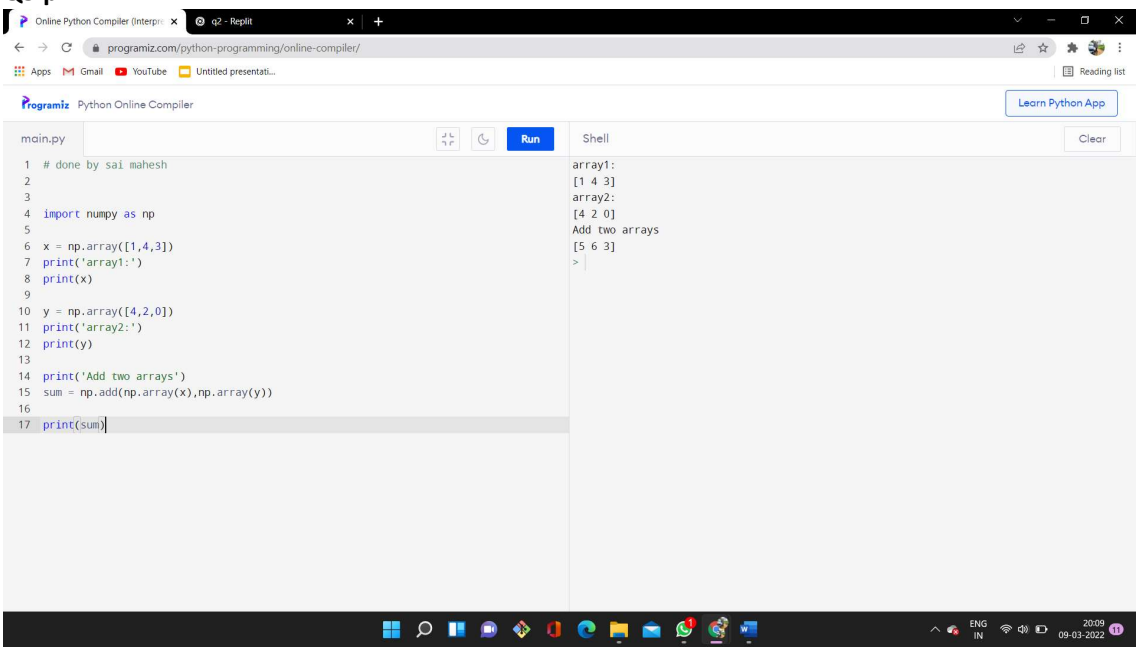
Learn Python App
main.py
Run
Shell
Clear
# done by sai mahesh
import pandas as pd
ser = pd.Series(['virat', 'is', 'very', 'talented', 'cricket' , 'player'])
newseries = ser.map(lambda x: x[0].upper() + x[1:-1] + x[-1])
print(newseries)
0 Virat
1 Is
2 Very
3 Talented
4 Cricket
5 Player
dtype: object
ENG
IN
20:03
09-03-2022

Q5 p1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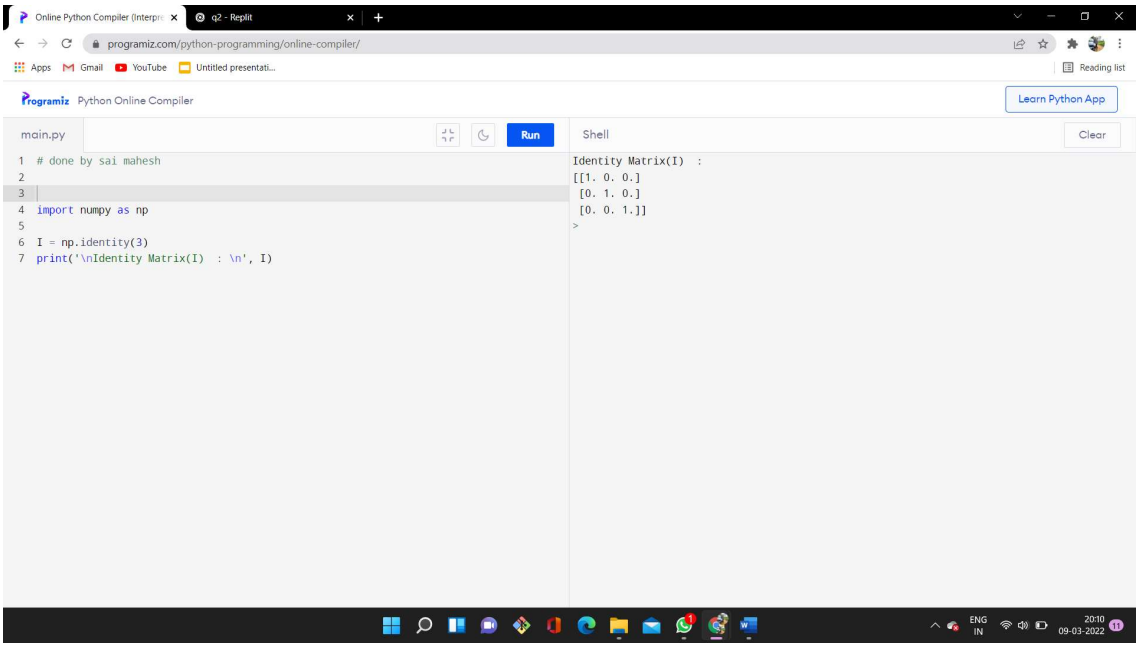
Reading list
Programiz Python Online Compiler
Learn Python App
main.py
Run
Shell
Clear
1 # done by sai mahesh
2
3
4 import numpy as np
5
6 x = np.array([1,4,3])
7 print('array1:')
8 print(x)
9
10 y = np.array([4,2,0])
11 print('array2:')
12 print(y)
13
14 print('Add two arrays')
15 sum = np.add(np.array(x),np.array(y))
16
17 print(sum)
array1:
[1 4 3]
array2:
[4 2 0]
Add two arrays
[5 6 3]
>
ENG
IN
20:09
09-03-2022

Q5 p2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Reading list
Programiz Python Online Compiler
Learn Python App
main.py
Run
Shell
Clear
1 # done by sai mahesh
2
3
4 import numpy as np
5
6 I = np.identity(3)
7 print('\nIdentity Matrix(I) : \n', I)
Identity Matrix(I) :
[[1. 0. 0.]
[0. 1. 0.]
[0. 0. 1.]]
>
ENG
IN
20:10
09-03-2022