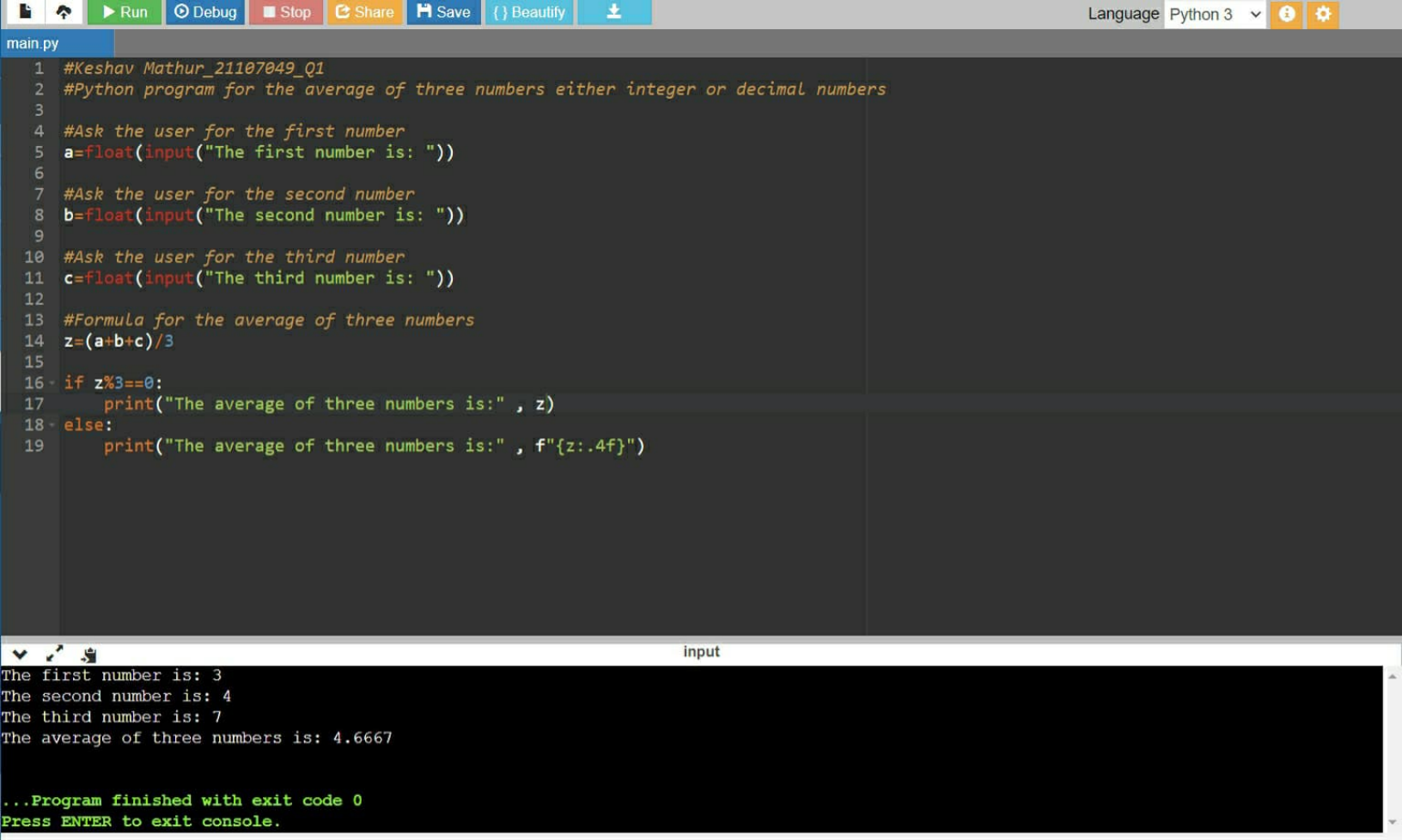
Run
Debug
Stop
Share
Save
{ } Beautify
Language
Python 3
main.py
#Keshav Mathur_21107049_Q1
#Python program for the average of three numbers either integer or decimal numbers
#Ask the user for the first number
a=float(input("The first number is: "))
#Ask the user for the second number
b=float(input("The second number is: "))
#Ask the user for the third number
c=float(input("The third number is: "))
#Formula for the average of three numbers
z=(a+b+c)/3
if z%3==0:
print("The average of three numbers is:" , z)
else:
print("The average of three numbers is:" , f"{z:.4f}")
input
The first number is: 3
The second number is: 4
The third number is: 7
The average of three numbers is: 4.6667
...Program finished with exit code 0
Press ENTER to exit console.

Run | Debug | Stop | Share | Save | { } Beautify | Language Python 3

main.py

```python
#Keshav Mathur_21107049_Q2
#Python program for income tax of family

#Ask user for their Gross income
income=int(input("What is the Gross Income of the family? ").strip())

#Ask user for their family size including him/her
size=int(input("How many people are their in your family? ").strip())

StandardDeduction= 10000
DependentDeduction= 3000
Dependents= (size-1)

#Formula to calculate income tax
taxableincome= income- StandardDeduction-((DependentDeduction)*(Dependents))

tax= (taxableincome*20)/100

#condition for negative tax
if income> StandardDeduction + ((DependentDeduction)*(Dependents)):
    print(f"The income tax of your family is: {tax:,} $")
else:
    print("The income tax of your family is: 0 $")
```

input

```
What is the Gross Income of the family?        9000000
How many people are their in your family?          6
The income tax of your family is: 1,795,000.0 $


...Program finished with exit code 0
Press ENTER to exit console.
```

Run | Debug | Stop | Share | Save | { } Beautify | Language Python 3

main.py

```python
#Keshav Mathur_21107049_Q3
#Python program to convert many seconds into minutes and seconds

#Ask the user how many seconds to calculate
Totaltime= int(input("How many seconds to calculate: "))
mins= Totaltime//60
secs= Totaltime%60
print(Totaltime , "seconds" , "is:" , mins , "minutes and" , secs , "seconds")
```

input

```
How many seconds to calculate: 200
200 seconds is: 3 minutes and 20 seconds


...Program finished with exit code 0
Press ENTER to exit console.
```

Run | Debug | Stop | Share | Save | { } Beautify | Language Python 3

main.py

```python
#Keshav Mathur_21107049_Q4
#Python program for the addition of three numbers : 25, '25', 25.0 to result of 75 as string

a= 25
b= '25'
c= 25.0

z=int(a) + int(b) + int(c)

print("The addition of three numbers and the type of result is:", str(z), end="")
print("," , type(z))
```

input

```
The addition of three numbers and the type of result is: 75, <class 'int'>


...Program finished with exit code 0
Press ENTER to exit console.
```

Run | Debug | Stop | Share | Save | { } Beautify | Language Python 3

main.py

```python
#Keshav Mathur_21107049_Q5
#Python program for different values of sine and cos in angles ranging for (0-345 degrees)
#First we need to import math library of python in our code
import math

#To print required output we need to do the following code
for n in range(0, 24):
    deg=15*n
    rad = (deg*math.pi)/180
    print(deg , end="")
    print("°", "---" , f"{(math.sin(rad)):.4f}, ", end="")
    print(f"{(math.cos(rad)):.4f}")
```

input

```
0° --- 0.0000, 1.0000
15° --- 0.2588, 0.9659
30° --- 0.5000, 0.8660
45° --- 0.7071, 0.7071
60° --- 0.8660, 0.5000
75° --- 0.9659, 0.2588
90° --- 1.0000, 0.0000
105° --- 0.9659, -0.2588
120° --- 0.8660, -0.5000
135° --- 0.7071, -0.7071
150° --- 0.5000, -0.8660
165° --- 0.2588, -0.9659
180° --- 0.0000, -1.0000
195° --- -0.2588, -0.9659
210° --- -0.5000, -0.8660
225° --- -0.7071, -0.7071
240° --- -0.8660, -0.5000
255° --- -0.9659, -0.2588
270° --- -1.0000, -0.0000
285° --- -0.9659, 0.2588
300° --- -0.8660, 0.5000
315° --- -0.7071, 0.7071
330° --- -0.5000, 0.8660
345° --- -0.2588, 0.9659
```