

FileEditViewNavigateCodeRefactorRunToolsVCSWindowHelpassign1 - q1.py

q1

assign1 / q1.py

q1.pyq2.pyq3.pyq4.pyq5.py

```
1'''Let there be 3 numbers n1, n2 and n3 (choose any 3).
2average of three numbers= (n1+n2+n3)/3'''
3
4n1= float(input("first number "))
5n2= float(input("second number "))
6n3= float(input("third number "))
7average= (n1+n2+n3)/3
8print("average of the given numbers is:- ",average)
```

Run: q1

```
C:\Users\yash7\AppData\Local\Programs\Python\Python310\python.exe D:/assign1/q1.py
first number 2
second number 3
third number 4
average of the given numbers is:- 3.0

Process finished with exit code 0
|
```

RunTODOProblemsTerminalPython PackagesPython Console

Waiting for process detach8:1CRLFUTF-84 spacesPython 3.10

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Show desktop

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help assign1 - q2.py

Project assign1 / q2.py

q1.py x q2.py x q3.py x q4.py x q5.py x

```
1 """let gri represent gross income and D represent the number of dependents and let st represent the standard deduction.
2 ...also let... deduc represent the amount deducted per dependent, ti represent taxable income;
3 t represent tax rate;
4 "tax" represent total tax to be paid.
5 ...given info:-Taxable income = GrossIncome - Standard deduction - (Dependent deduction
6 * No. of dependents)
7 Tax = Taxable Income * Tax Rate"""
8
9 gri= float(input("enter the gross income "))
10 d= float(input("number of dependents:- "))
11 st= 10000
12 deduc= 3000
13 ti= gri-st-(deduc*d)
14 t= 20/100
15 tax= ti*t
16 print("Total income tax:- ", tax)
```

Run: q2 x

C:\Users\yash7\AppData\Local\Programs\Python\Python310\python.exe D:/assign1/q2.py

enter the gross income 75000

number of dependents:- 4

Total income tax:- 10600.0

Process finished with exit code 0

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File Edit View Navigate Code Refactor Run Tools VCS Window Help assign1 - q3.py

q3

assign1 / q3.py

q1.py x q2.py x q3.py x q4.py x q5.py x

```
1 """Let 'seconds' be the total seconds the user has to enter as an input. 'minutes' is the integral number of minutes in
2 those 'seconds' and rem_secs is the remaining number of seconds.(after minutes)"""
3
4 seconds= int(input("number of seconds:- "))
5 minutes= seconds//60
6 rem_secs= seconds%60
7 resultant= minutes,...,"minutes and", rem_secs, "seconds"
8 print(resultant)
9
```

Run: q3 x

C:\Users\yash7\AppData\Local\Programs\Python\Python310\python.exe D:/assign1/q3.py

number of seconds:- 90

(1, 'minutes and', 30, 'seconds')

Process finished with exit code 0

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File Edit View Navigate Code Refactor Run Tools VCS Window Help assign1 - q4.py

q4

assign1 / q4.py

q1.py x q2.py x q3.py x q4.py x q5.py x

```
1 '''We have 25, '25'and 25.0 and we need to give resultant as 75 in string type.'''
2 result= 25+ int('25')+ int('25')
3 #now converting result into string type.
4 result=str(result)
5 print(result)
6 print(type(result))
```

Run: q4 x

C:\Users\yash7\AppData\Local\Programs\Python\Python310\python.exe D:/assign1/q4.py

75

<class 'str'>

Process finished with exit code 0

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FileEditViewNavigateCodeRefactorRunToolsVCSWindowHelpassign1 - q5.py

q5

assign1 / q5.py

q1.py ×q2.py ×q3.py ×q4.py ×q5.py ×

```
1 import math
2 input__angle=int(input("Enter angle between 0 to 345 with increment of 15 degree:"))
3 print(f"{input__angle})  {round(math.sin(input__angle),4)}  {round(math.cos(input__angle),4)}")
```

Run: q5 ×

Run

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```
C:\Users\yash7\AppData\Local\Programs\Python\Python310\python.exe D:/assign1/q5.py
Enter angle between 0 to 345 with increment of 15 degree:45
45)  0.8509 0.5253

Process finished with exit code 0
```

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Waiting for process detach6:1CRLFUTF-84 spacesPython 3.10

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