

# question 1

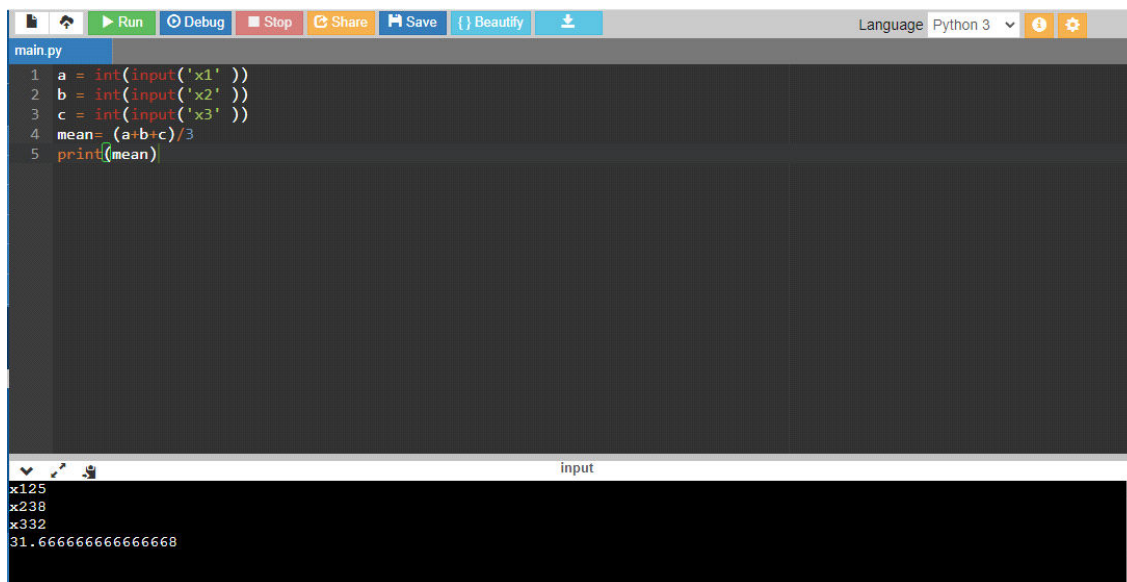
```
a = int(input('x1' ))
```

```
b = int(input('x2' ))
```

```
c = int(input('x3' ))
```

```
mean= (a+b+c)/3
```

```
print(mean)
```



The screenshot shows a Python IDE with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. The code in the editor is as follows:

```
1 a = int(input('x1' ))
2 b = int(input('x2' ))
3 c = int(input('x3' ))
4 mean= (a+b+c)/3
5 print(mean)
```

The output console at the bottom shows the following input and output:

```
input
x125
x238
x332
31.666666666666668
```

#Question 2

```
standard_deduction=10000
```

```
depend_deduction=3000
```

```
gross=input("enter gross income")
```

```
No_of_dependents=input("Enter number of dependents")
```

```
taxable_income=int(gross)-int(standard_deduction)-(int(de  
pend_deduction)+int(No_of_dependents))
```

```
tax=(float(taxable_income)*0.2)
```

```
print("Your income tax is :")
```

```
print(float(tax))
```



The screenshot shows a Python IDE with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Python 3. The main editor window displays a file named 'main.py' with the following code:

```
1 standard_deduction=10000
2 depend_deduction=3000
3 gross=input("enter gross income")
4 No_of_dependents=input("Enter number of dependents")
5 taxable_income=int(gross)-int(standard_deduction)-(int(de
6 tax=(float(taxable_income)*0.2)
7 print("Your income tax is :")
8 print(float(tax))
```

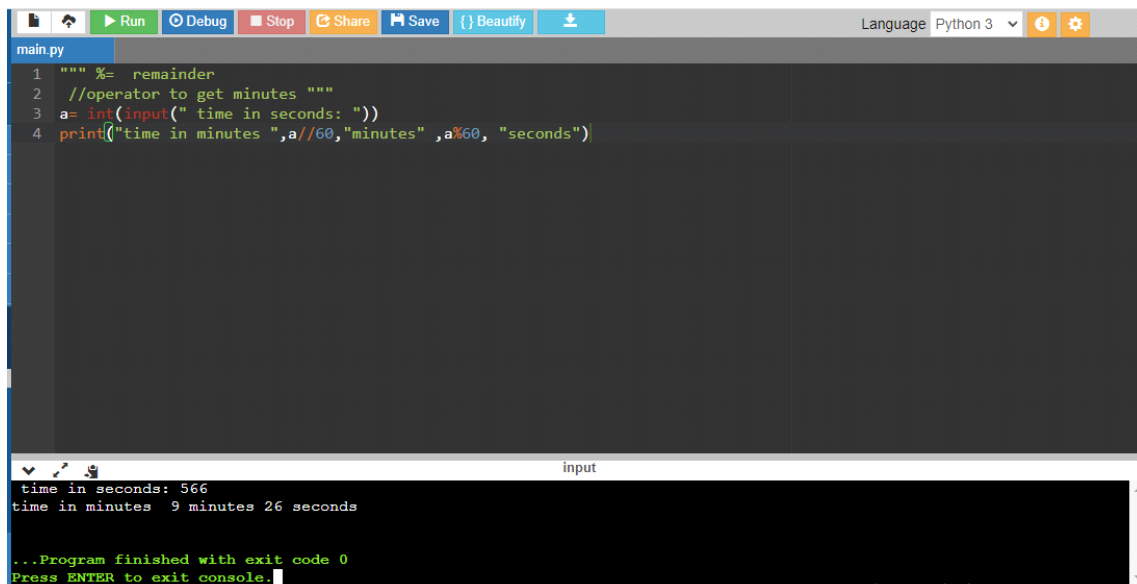
Below the editor, an 'input' window shows the program's execution with the following prompts and user input:

```
enter gross income152412
Enter number of dependents22
Your income tax is :
27878.0
```

An 'Activate Windows' watermark is visible in the bottom right corner of the IDE window.

### # Question 3

```
""" %= remainder
//operator to get minutes """
a= int(input(" time in seconds: "))
print("time in minutes ",a//60,"minutes" ,a%60, "seconds")
```



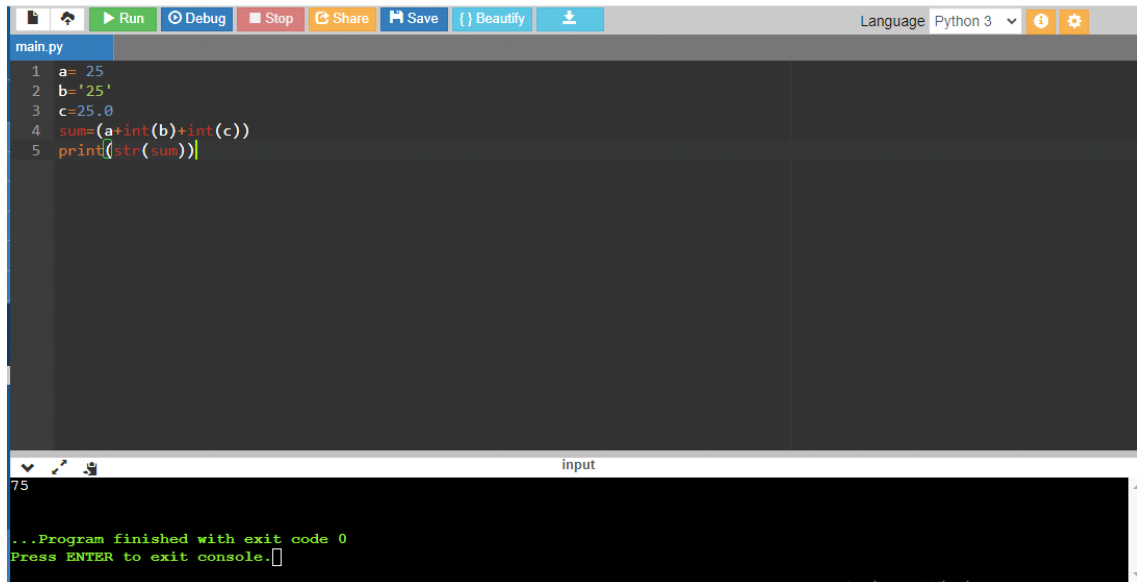
```
main.py
1 """ %= remainder
2 //operator to get minutes """
3 a= int(input(" time in seconds: "))
4 print("time in minutes ",a//60,"minutes" ,a%60, "seconds")

input
time in seconds: 566
time in minutes 9 minutes 26 seconds

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

### # Question 4

```
a= 25
b='25'
c=25.0
sum=(a+int(b)+int(c))
print(str(sum))
```



The screenshot shows a Python IDE interface. The top toolbar includes icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Python 3. The editor displays a file named `main.py` with the following code:

```
1 a= 25
2 b='25'
3 c=25.0
4 sum=(a+int(b)+int(c))
5 print(str(sum))
```

Below the editor is a console window titled "input" showing the output of the program:

```
75
...Program finished with exit code 0
Press ENTER to exit console.
```

# Question 5

```
import math
```

```
a=0
```

```
while a <= 345:
```

```
    sin_a= math.sin(math.radians(a))
```

```
    cos_a = math.cos(math.radians(a))
```

```
    print(str(a) + "---" + str(round(sin_a , 4)) + " " +
          str(round(cos_a , 4)))
```

```
    a+=15
```

Run

Debug

Stop

Share

Save

Beautify

Language Python 3

main.py

```
1 import math
2 a=0
3 while a<= 345:
4     sin_a= math.sin(math.radians(a))
5     cos_a = math.cos(math.radians(a))
6     print(str(a)+ "----" + str(round(sin_a , 4))+ " " + str(round(cos_a , 4)))
7     a+=15
```

input

```
0---0.0 1.0
15---0.2588 0.9659
30---0.5 0.866
45---0.7071 0.7071
60---0.866 0.5
75---0.9659 0.2588
90---1.0 0.0
105---0.9659 -0.2588
120---0.866 -0.5
135---0.7071 -0.7071
150---0.5 -0.866
165---0.2588 -0.9659
180---0.0 -1.0
195---0.2588 -0.9659
210---0.5 -0.866
225---0.7071 -0.7071
240---0.866 -0.5
255---0.9659 -0.2588
270---1.0 -0.0
285---0.9659 0.2588
```