UTTAM JAIN 21107011

QUESTION1

INPUT

```
#QUESTION 1
print("QUESTION 1")
#Taking 3 numbers as inputs
number1=float(input("Enter first number:-\n"))
number2=float(input("Enter second number:-\n"))
number3=float(input("Enter third number:-\n"))
average=(number1+number2+number3)/3    #Making formula for average
print("Average of the three numbers is:-\n",round(average,2))
```

OUTPUT

```
QUESTION 1
Enter first number:-
6
Enter second number:-
7
Enter third number:-
9
Average of the three numbers is:-
 7.33
```

QUESTION2

INPUT

```
# QUESTION 2
print("QUESTION 2")
standard_deduction=10000
dependent_deduction=3000
rate=0.2
gross_income=float(input("Enter your gross income\n"))
dependents=int(input("Enter number of dependents\n"))
dependent_deduction=dependent_deduction*dependents
taxable_amount=gross_income-standard_deduction-dependent_deduction
tax=taxable_amount*rate
print("Your total tax:\n",tax)
```

OUTPUT

```
QUESTION 2
Enter your gross income
60000
Enter number of dependents
7
Your total tax:
 5800.0
```

QUESTION3

INPUT

```
# QUESTION 3
print("QUESTION 3")
input_secounds=int(input("Enter number of seconds:\n"))
minute=input_secounds/60
minute = round(minute)
remainder=input_secounds%60
print(str(minute)+" minutes and "+str(remainder)+" seconds")
```

OUTPUT

```
QUESTION 3
Enter number of seconds:
600
10 minutes and 0 seconds
```

QUESTION4

INPUT

```
# QUESTION 4
print("QUESTION 4")
number1=25
number2='25'
number3=25.0
adding_numbers=number1+int(number2)+int(number3)
adding_numbers=str(adding_numbers)
print(adding_numbers)
print(type(adding_numbers))
```

OUTPUT

```
QUESTION 4
75
<class 'str'>
```

QUESTION5

INPUT

```
# QUESTION 5
print("QUESTION 5")

from cmath import sin
import math
Starting_degree=0
ending_degree=345

for i in range(Starting_degree,ending_degree+1):
    if(i%15==0):

        sine_value=math.sin(math.radians(i))
        cosine_value=math.cos(math.radians(i))
        print(i," --- ",round(sine_value,4),"\t",round(cosine_value,4))
```

OUTPUT

```
QUESTION 5
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
300  ---  -0.866     0.5
315  ---  -0.7071    0.7071
330  ---  -0.5   0.866
345  ---  -0.2588    0.9659
```