# **QUESTION1**

### <u>INPUT</u>

```
#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))
```

```
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)
```

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

#### **QUESTION3**

### <u>INPUT</u>

```
# 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")
```

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

# **QUESTION4**

### <u>INPUT</u>

```
# 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))
```

```
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))
```

```
QUESTION 5
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
                 -0.7071
225 --- -0.7071
                 -0.5
240 --- -0.866
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
```