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Branch- Mechanical'''
#Q1. Average of 3 numbers
print("Hello there, you will be required to input three numbers to find their
# First we need to take 3 user input
Number_1 = int(input("Hey user enter your 1st number: "))
Number 2 = int(input("Hey user enter your 2nd number: "))
Number_3 = int(input("Hey user enter your 3rd number: "))
# To calculate average
Average = (Number 1 + Number 2 + Number 3)/3
print(f"The average of numbers entered by you is: {Average}")
#Q2. Tax Calaculator
# Values given in question
Tax Rate = 20/100
Standard deduction = 10000
Dependent deduction = 3000
# User input for Gross income and number of dependents
Gross_Income = int(input("Please enter your Gross Income to the nearest
pennny: $"))
Number of dependents = int(input("Please enter number of dependents: "))
# Formula to calculate tax amount
Taxable Income = Gross Income - Standard deduction -
(Dependent deduction*Number of dependents)
Tax = Taxable_Income*Tax_Rate
print(f"Dear user, your Income tax amount is: ${Tax}")
#Q3. Time Converter
# Taking user input
user sec = int(input("User enter a number of seconds"))
# Converting input to desired form
min = user sec//60
sec = user_sec%60
print(f"Dear user the amount of seconds you enetered condenses to this: {min}
minutes and {sec} seconds. ")
#Q4. Three numbers addition to produce 75
a = 25
b = '25'
c = 25.0
print(f'The numbers are {a,b,c}')
# Converting Numbers to single form to carry out addition operation
d = a + int(b) + int(c)
print(f"The sum of numbers is {d} ")
```

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print(type(d))
# Converting to string format
e = str(d)
print(f"The string format is {e}")
print(type(e))

#Q5. Program to print out sine and cosine
import math
pi = 22/7
for i in range (0,346,15):
    a = math.sin(i*pi/180)
    b = math.cos(i*pi/180)
    print(f"{i} --- {a} {b}")
```

#### **OUTPUT: -**

#### Q1.

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Windows PowerShell
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PS C:\Users\Dipanshu> & C:/Users\Dipanshu/AppData/Local/Programs/Python/Python310/python.exe c:/Users/Dipanshu/Desktop/Python_PEC/Assignment_1.py
Hello there, you will be required to input three numbers to find their average
Hey user enter your 1st number: 23
Hey user enter your 3rd number: 34
Hey user enter your 3rd number: 45
The average of numbers entered by you is: 34.0
PS C:\Users\Dipanshu>

Do In 60, Col 1 Spaces 4 UTF-8 CRLF Python 3.100.64-bit RP Q
```

# Q2.

```
Windows PowerShell
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PS C:\Users\Dipanshu> & C:/Users/Dipanshu/AppData/Local/Programs/Python/Python310/python.exe c:/Users/Dipanshu/Desktop/Python_PEC/Assignment_1.py
Please enter your Gross Income to the nearest pennny: $30000
Please enter number of dependents: 3
Dear user, your Income tax amount is: $2200.0
PS C:\Users\Dipanshu>
```

### Q3.

```
Windows PowerShell
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PS C:\Users\Dipanshu>& C:/Users/Dipanshu/AppData/Local/Programs/Python/Python310/python.exe c:/Users/Dipanshu/Desktop/Python_PEC/Assignment_1.py
User enter a number of seconds: 460
Dear user the amount of seconds you enetered condenses to this: 7 minutes and 40 seconds.
PS C:\Users\Dipanshu>
```

# Q4.



