Worksheet – 1.1

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Section/Group: 808/B
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Subject Name: Programming In Python Lab
Subject Code: 20CSP-259

1. Aim/Overview of the practical:

I. Write a program c to enter two numbers and perform all arithmetic operations.
II. Write a program to enter marks of five subjects and calculate total, average and percentage.
III. Write a program to enter length in centimeter and convert it into meter and kilometer, and also convert the same into Equivalents

2. Task to be done/ Which logistics used:

I. Perform arithmetic operation.
II. Calculate the total, average and percentage.
III. Convert centimeter into meter, kilometer and vice versa.

3. Steps for experiment/practical/Code:

I. Perform arithmetic operation.

Sourse Code:

```
num1 = float(input(" Please Enter the First Number: "))
num2 = float(input(" Please Enter the Second Number: "))
add = num1 + num2
sub = num1 - num2
multi = num1 * num2
div = num1 / num2
mod = num1 % num2
expo = num1 ** num2
print("The Sum of {0} and {1} = {2}".format(num1, num2, add))
print("The Subtraction of {0} from {1} = {2}".format(num2, num1, sub))
print("The Multiplication of {0} and {1} = {2}".format(num1, num2, multi))
print("The Division of {0} and {1} = {2}".format(num1, num2, div))
print("The Modulus of {0} and {1} = {2}".format(num1, num2, mod))
print("The Exponent Value of {0} and {1} = {2}".format(num1, num2, expo))
```

II. Calculate the total, average and percentage.

Sourse Code:

```
english = float(input("Please enter English Marks: "))
math = float(input("Please enter Math score: "))
computers = float(input("Please enter Computer Marks: "))
physics = float(input("Please enter Physics Marks: "))
chemistry = float(input("Please enter Chemistry Marks: "))
total = english + math + computers + physics + chemistry
average = total / 5
percentage = (total / 500) * 100
print("\nTotal Marks = %.2f"  %total)
print("Average Marks = %.2f"  %average)
print("Marks Percentage = %.2f"  %percentage)
```

III. Convert centimeter into meter, kilometer and vice versa.

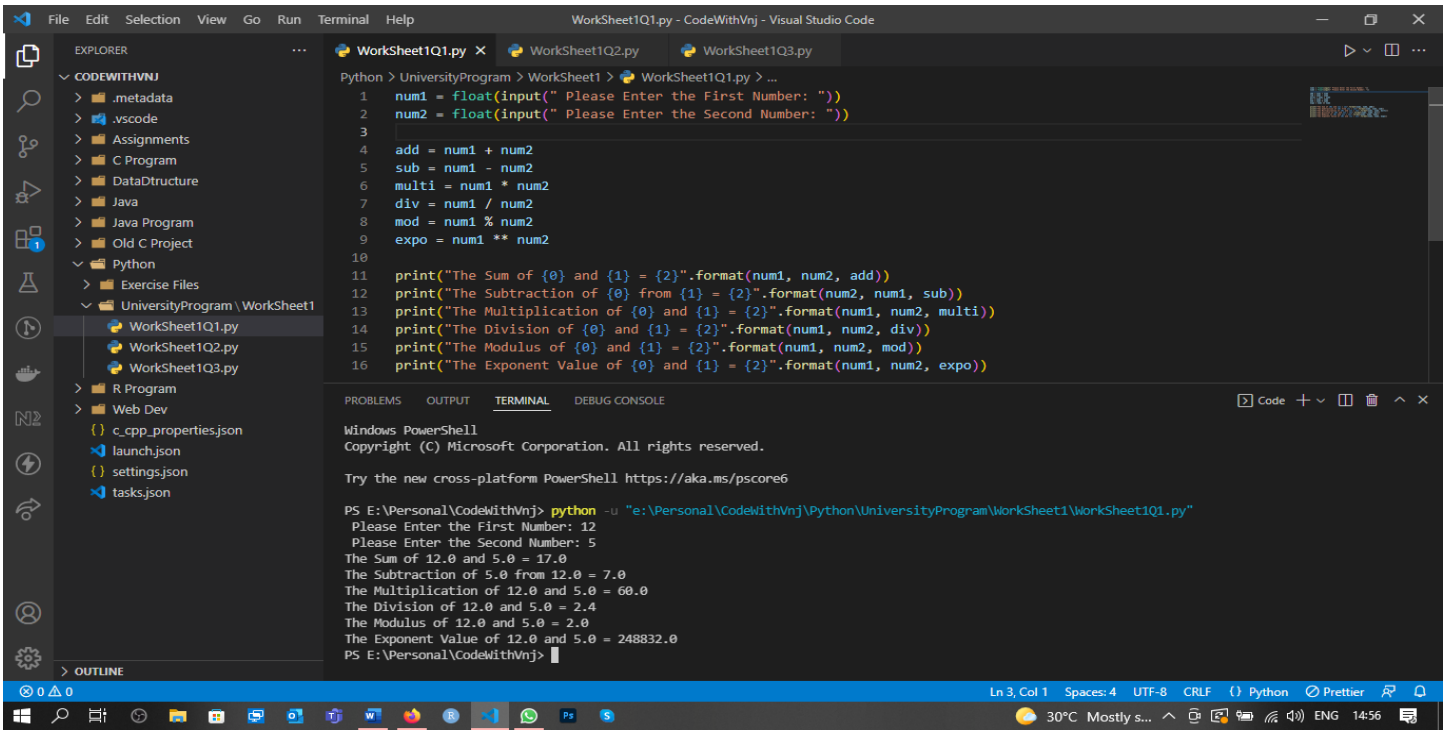
Sourse Code:

```
#Covert centimeters to meters & Kilometers
cm = input("Enter Length in Centimeters : ")
meter = float(cm)/100
kilometer = float(cm) / 100000
print("Length in meters = " ,meter , "m")
print("Length in Kilometers = ",kilometer , "km")

#Covert Meters to centimeters & Kilometers
meter = input("Enter Length in Meters : ")
cm = float(meter)*100
kilometer = float(meter) / 1000
print("Length in Centimeters = " ,cm , "cm")
print("Length in Kilometers = ",kilometer , "km")

#Covert Kilometers to centimeters & meters
kilometer = input("Enter Length in Kilometers : ")
meter = float(kilometer)*1000
cm = float(kilometer) * 100000
print("Length in Centimeters = " ,cm , "cm")
print("Length in meters = ",meter , "m")
```

4. Result/Output/Writing Summary:

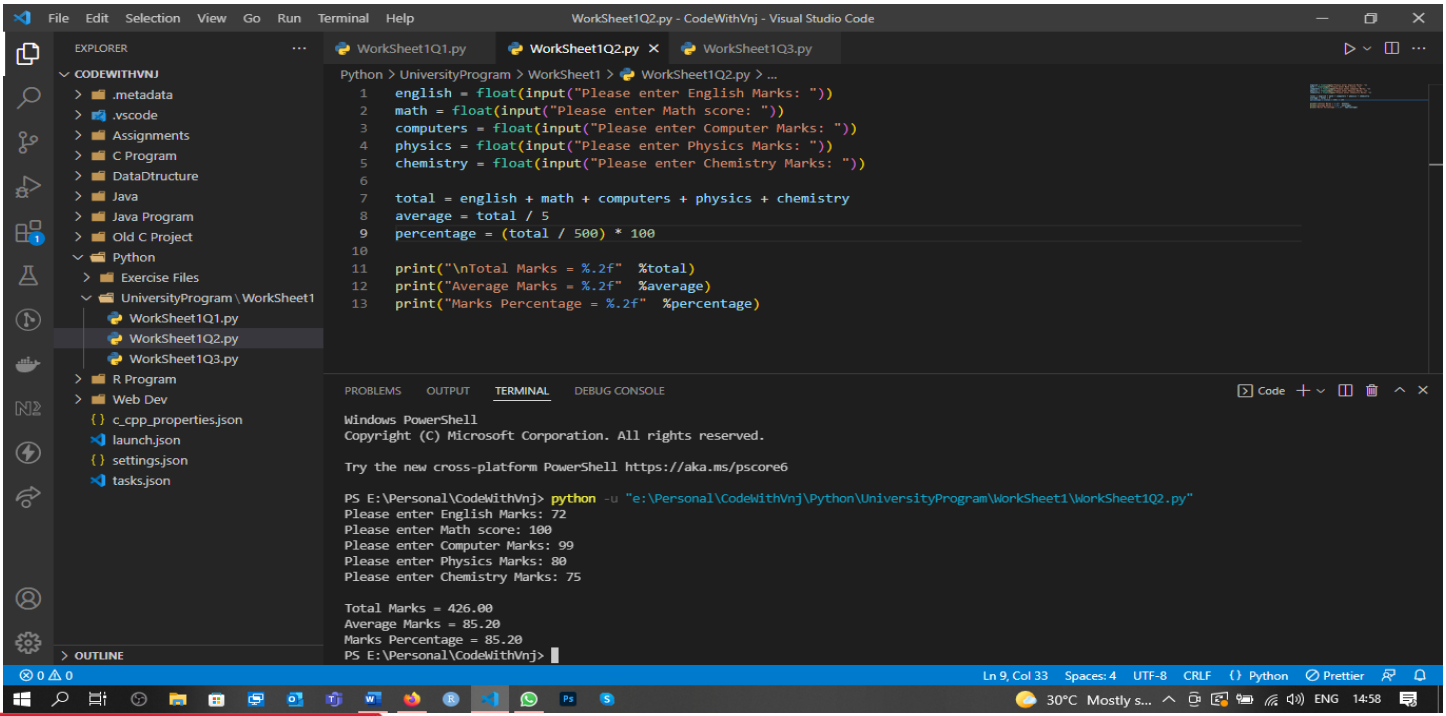
I. Perform arithmetic operation.

Output:



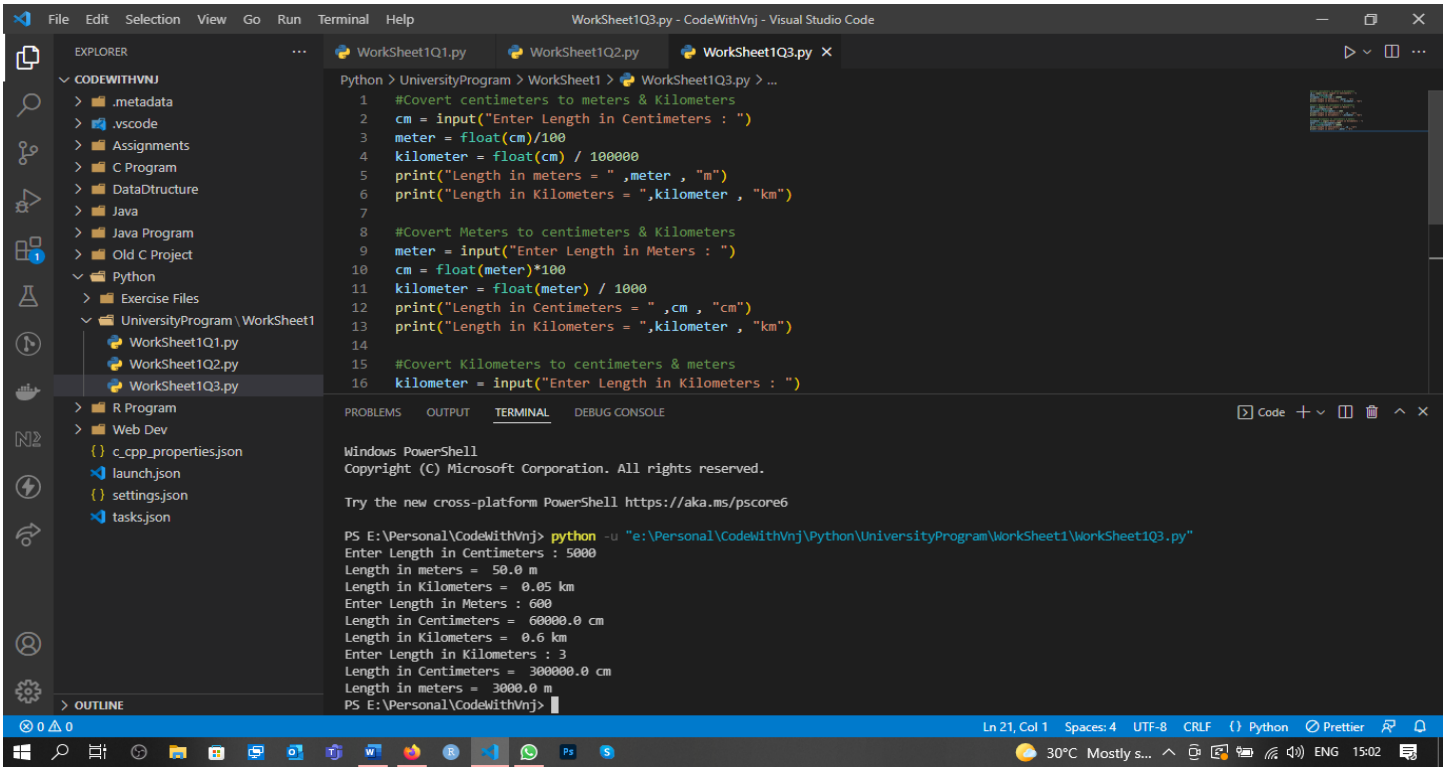
II. Calculate the total, average and percentage.

Output:



III. Convert centimeter into meter, kilometer and vice versa.

Output:



Learning outcomes (What I have learnt):

1. I have learnt, how to perform Arithmetic Operations on two numbers.
2. Learnt to find the Sum, Average and Percentage in python.
3. Learnt length conversion using python.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			