

Experiment 1.1

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Branch: CSE

Section/Group:607B

Semester: 4th

Date of Performance: 18/02/2022

Subject Name:Programming in Python Lab

Subject Code: 22E-20CSP-259

1) Aim/Overview of the practical:

Q1. Write a program c to enter two numbers and perform all arithmetic operations.

2) Task to be done/ Which logistics used:

To write a program c to enter two numbers and perform all arithmetic operations.

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:

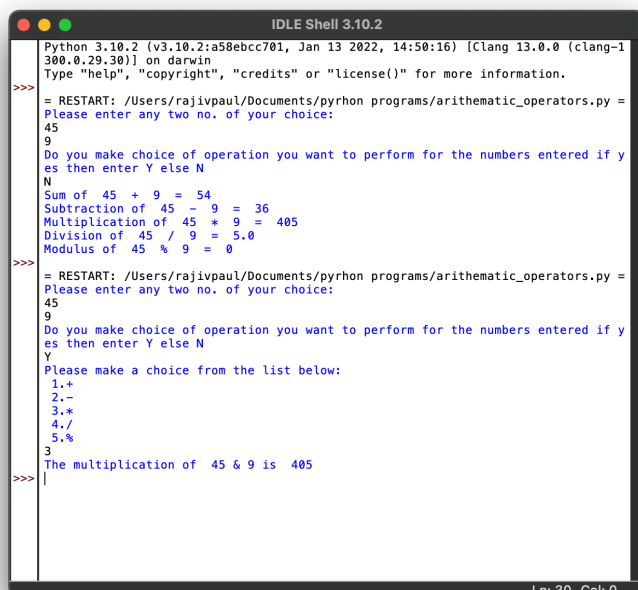
```
arithmetic_operators.py - /Users/rajivpaul/Documents/pyrhon programs/arithmetic_operators.py (3.10.2)
print('Please enter any two no. of your choice:')
a = int(input())
b = int(input())
sum,sub,mul,div,mod=0,0,0,0,0
print('Do you make choice of operation you want to perform for the numbers entered if yes then enter Y else N')
ch = str(input())

if ch=='N':
    print('Sum of ',a,' + ',b,' = ',a+b)
    print('Subtraction of ',a,' - ',b,' = ',a-b)
    print('Multiplication of ',a,' * ',b,' = ',a*b)
    print('Division of ',a,' / ',b,' = ',a/b)
    print('Modulus of ',a,' % ',b,' = ',a%b)

if ch=='Y':
    print('Please make a choice from the list below:\n 1.+ \n 2.- \n 3.* \n 4./ \n 5.%')
    n = int(input())
    if n==1:
        sum=a+b
        print('The sum of ',a,'&',b,'is ',sum)
    elif n==2:
        sub=a-b
        print('The subtraction of ',a,'&',b,'is ',sub)
    elif n==3:
        mul=a*b
        print('The multiplication of ',a,'&',b,'is ',mul)
    elif n==4:
        div=a/b
        print('The division of ',a,'&',b,'is ',div)
    elif n==5:
        mod=a%b
        print('The modulus of ',a,'&',b,'is ',mod)
    else:
        print('Invalid option choosen!!\n Program ended!')
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: /Users/rajivpaul/Documents/pyrhon programs/arithmetic_operators.py =
Please enter any two no. of your choice:
45
9
Do you make choice of operation you want to perform for the numbers entered if yes then enter Y else N
N
Sum of 45 + 9 = 54
Subtraction of 45 - 9 = 36
Multiplication of 45 * 9 = 405
Division of 45 / 9 = 5.0
Modulus of 45 % 9 = 0
>>>
= RESTART: /Users/rajivpaul/Documents/pyrhon programs/arithmetic_operators.py =
Please enter any two no. of your choice:
45
9
Do you make choice of operation you want to perform for the numbers entered if yes then enter Y else N
Y
Please make a choice from the list below:
1.+
2.-
3.*
4./
5.%
3
The multiplication of 45 & 9 is 405
>>>
```

1) Aim/Overview of the practical:

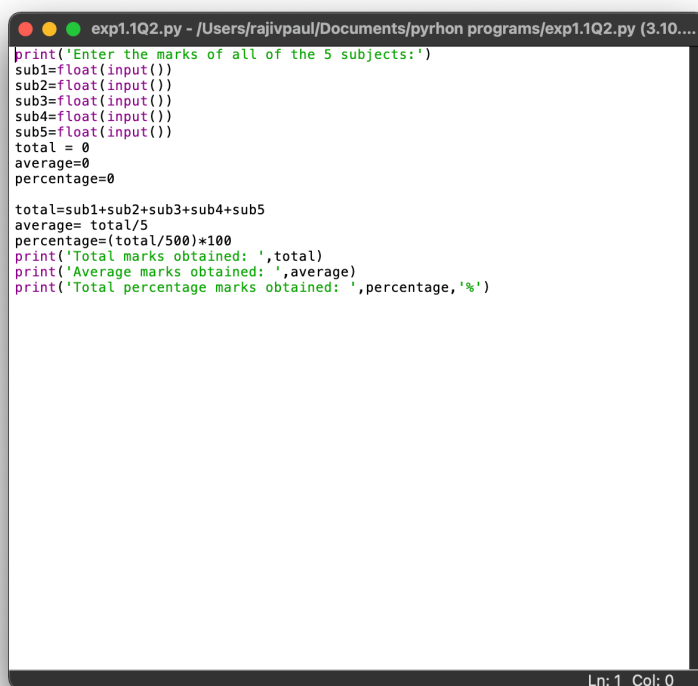
Q2. Write a program to enter marks of five subjects and calculate total, average and percentage.

2) Task to be done/ Which logistics used:

To write a program to enter marks of five subjects and calculate total, average and percentage.

3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:



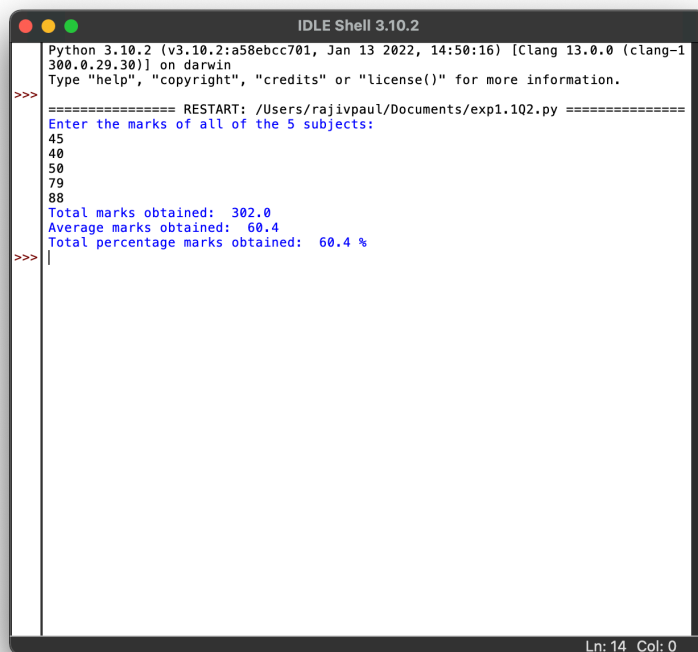
```
exp1.1Q2.py - /Users/rajivpaul/Documents/pyrhon programs/exp1.1Q2.py (3.10....)
print('Enter the marks of all of the 5 subjects:')
sub1=float(input())
sub2=float(input())
sub3=float(input())
sub4=float(input())
sub5=float(input())
total = 0
average=0
percentage=0

total=sub1+sub2+sub3+sub4+sub5
average= total/5
percentage=(total/500)*100
print('Total marks obtained: ',total)
print('Average marks obtained: ',average)
print('Total percentage marks obtained: ',percentage,'%')
```

Ln: 1 Col: 0

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/exp1.102.py =====
Enter the marks of all of the 5 subjects:
45
40
50
79
88
Total marks obtained: 302.0
Average marks obtained: 60.4
Total percentage marks obtained: 60.4 %
>>>
Ln: 14 Col: 0
```

1) Aim/Overview of the practical:

Q3. 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:

To write a program to enter length in centimeter and convert it into meter and kilometer, and also convert the same into Equivalents.

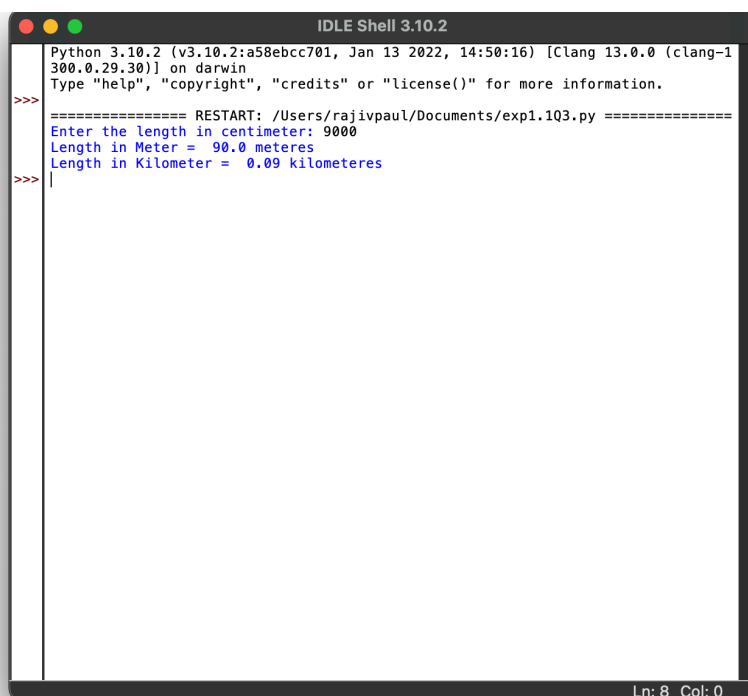
3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:

```
exp1.1Q3.py - /Users/rajivpaul/Documents/exp1.1Q3.py (3.10.2)
cm=float(input('Enter the length in centimeter: '))
m=float(cm/100)
km = float(cm/100000)
print('Length in Meter = ',m,'metres')
|
print('Length in Kilometer = ',km,'kilometres')
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:



```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/rajivpaul/Documents/exp1.103.py =====
Enter the length in centimeter: 9000
Length in Meter = 90.0 meters
Length in Kilometer = 0.09 kilometres
>>>
Ln: 8 Col: 0
```

Learning outcomes (What I have learnt):

- 1. Learnt about python programming language.**
- 2. Learnt about the different types operators.**
- 3. Learnt about if else statements.**
- 4.**
- 5.**

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.			