Practice Set-1

Ques-1. Write a program for the addition of Two Numbers.

Code:

num1 = int(input("Enter 1st number"))
num2 = int(input("Enter 2nd number"))
sum = num1 + num2
print("Addition = ", sum)

Output:

Enter 1st number: 55 Enter 2nd number: 58

Addition = 113

Ques-2. Write a program to read two numbers and print their quotient and remainder.

Code:

```
num1 = int(input("Enter 1st number"))
num2 = int(input("Enter 2nd number"))
ques = (num1 // num2)
rem = (num1 % num2)
print("quotient = ", ques)
print("remainder = ", rem)
```

Output:

```
Enter 1st number>? 3215
Enter 2nd number>? 26
quotient = 123
remainder = 17
```

```
num1 = int(input("Enter 1st number :"))

num2 = int(input("Enter 2nd number :"))

ques = (num1 // num2)

rem = (num1 % num2)

print("quotient = ", ques)

print("remainder = ", rem)

PC Python Console - MCA Python — 

divide ×

Enter 1st number :>? 3215

Enter 2nd number :>? 26

quotient = 123

remainder = 17

>>>>

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```

Ques-3. Write a program to find the Average of Three Numbers.

Code:

```
num1 = int(input("Enter 1st number"))
num2 = int(input("Enter 2nd number"))
num3 = int(input("Enter 3rd number"))
avg = (num1 + num2 + num3)/3
print(avg)
```

Output:

Enter 1st number>? 55 Enter 2nd number>? 69 Enter 3rd number>? 98 Average = 74.0

Ques-4. Write a program to Calculate Sum of 5 Subjects and Find Percentage (Max Mark in each subject is 100).

Code:

```
S1 = int(input("Enter S1 marks"))
S2 = int(input("Enter S2 marks"))
S3 = int(input("Enter S3 marks"))
S4 = int(input("Enter S4 marks"))
S5 = int(input("Enter S5 marks"))
Total = S1+S2+S3+S4+S5
percent = (Total/500)*100
print('Total marks is {0} and percent {1}'.format(Total, percent))
```

Output:

Enter S1 marks>? 55

Enter S2 marks>? 70

Enter S3 marks>? 82

Enter S4 marks>? 96

Enter S5 marks>? 85

Total marks is 388 and percent 77.6000000000001

```
S1 = int(input(*Enter S1 marks*))
S2 = int(input(*Enter S2 marks*))
S3 = int(input(*Enter S3 marks*))
S4 = int(input(*Enter S4 marks*))
S5 = int(input(*Enter S5 marks*))
Total = S1+S2+S3+S4+S5
percent = (Total/500)*100
print(*Total marks is {0} and percent {1}*.format(*args: Total, percent))

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Ques-5 Write a program to find gross salary.

Code:

```
bs = float(input("Enter the Basic Salary :"))
if bs < 15000:
  hra = bs * 0.1
  da = bs * 0.9
  print("HRA = ", hra)
  print("DA = ", da)
else:
  hra = 5000
  da = bs * 0.98
  print("HRA = ", hra)
  print("DA = ", da)
gs = bs + hra + da
print("Gross Salary Rs :", gs)
Output:
Enter the Basic Salary :>? 25000
HRA = 5000
DA = 24500.0
Gross Salary Rs: 54500.0
```

Ques-6 Write a program to Calculate Area of Circle. Code:

```
PI = 3.14

R = float(input("Enter radius of a circle :"))

area = PI*R*R

print("Area of circle = ", area)
```

Output:

Enter radius of a circle :>? 5 Area of circle = 78.5

Ques-7 Write a program to Calculate Area of Rectangle.

Code

Area of rectangle

l = 40
b = 30
area = l * b
print(area)

Output:

area = 1200

Ques-8 Write a program to Calculate Area of Square

```
Code: # Area of square
```

Output: Area Of Square = 25

```
# Area of square
 2
       S = 5
       print("Area Of Square = ", S*S)
 5
PC Run - MCA Python
                                     Run
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   "C:\Program Files\Python312\python
     .exe" "E:\Saksham\MCA
    Python\Codes\Practice set
Ξψ
    1\AreaofSquare.py"
₽
   Area Of Square = 25
⑪
   Process finished with exit code 0
```

Ques-9 Write a program to swap the values of two variables Code:

```
x = int(input("Enter 1st number :"))
y = int(input("Enter 2nd number :"))
print("Before Swapping :", x, y)

z = x
x = y
y = z

print("After Swapping :", x, y)
```

Output:

Enter 1st number :22 Enter 2nd number :35 Before Swapping : 22 35 After Swapping : 35 22

Snap:

Ques-10 Write a program to swap the values of two variables without using third variable

Code: # Swapping two variables without a third variable using arithmetic operations # def swap variables(a, b): # a = a + b# b = a - b # a = a - b# return a, b # Example usage x = int(input("Enter 1st number :")) y = int(input("Enter 2nd number :")) print("Before Swapping :") print("x =", x) print("y =", y) x = x + yy = x - yx = x - y# x, y = swap_variables(x, y) print("After swapping:") print("x =", x) print("y =", y) Output:

Enter 1st number:22

Enter 2nd number:36

Before Swapping:

x = 22

y = 36

After swapping:

x = 36

y = 22

Snap:

```
x = int(input("Enter 1st number :"))
          y = int(input("Enter 2nd number :"))
          print("Before Swapping :")
          print("x =", x)
         print("y =", y)
         y = x - y
         print("After swapping:")
       print("x =", x)
         print("y =", y)
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Run - MCA Python
Run 🥏 Swap2 ×
    "C:\Program Files\Python312\python.exe"
"E:\Saksham\MCA

Python\Codes\Practice set 1\Swap2.py"

Enter 1st number :22

Enter 2nd number :36

Before Swapping :
x = 22
y = 36
⑪ After swapping:
    x = 36
y = 22
```

Ques-11 Write a program to Compute Simple Interest Code:

```
p = float(input("Enter principal amount :"))
r = float(input("Enter rate of interest :"))
t = float(input("Enter time :"))
```

$$SI = (p*r*t)/100$$

print ("Simple Interest = ", SI)

Output:

Enter principal amount: 15000

Enter rate of interest:10

Enter time:9

Simple Interest = 13500.0

Snap: