## **DAY-04**

## September 04

```
stu id = int(input("Enter your ID: "))
stu name = input("Enter your name: ")
sub1 marks = float(input("Enter your sub1 marks: "))
sub2 marks = float(input("Enter your sub2 marks: "))
sub3 marks = float(input("Enter your sub3 marks: "))
Total marks = sub1 marks + sub2 marks + sub3 marks
percent = (Total marks/300)*100
print("Student ID = ",stu id,"\nStudent Name = ",stu name,"\nSub1 Marks =
",sub1 marks,"\nSub2 Marks = ",sub2 marks,"\nSub3 Marks =
",sub3 marks,"\nTotal Marks = ",Total marks,"\nPercentage = ",percent,"%")
print(".format method")
print("Student ID = {}\nStudent Name = {}\nSub1 Marks = {}\nSub2 Marks =
{}\nSub3 Marks = {}\nTotal Marks = {}\nPercentage =
{}%".format(stu id,stu name,sub1 marks,sub2 marks
,sub3 marks,Total marks,percent))
print("F string print method")
print(f"Student ID ={stu id}\nStudent Name ={stu name}\nSub1
Marks={sub1 marks}\nSub2 Marks={sub2 marks}\nSub3 Marks
={sub3 marks}\nTotal Marks={Total marks}\nPercentage={percent}%")
OUTPUT:
Enter your ID: 123
Enter your name: Narsi
Enter your sub1 marks: 80
Enter your sub2 marks: 90
```

Enter your sub3 marks: 100

Student ID = 123

Student Name = Narsi

Sub1 Marks = 80.0

Sub2 Marks = 90.0

Sub3 Marks = 100.0

Total Marks = 270.0

Percentage = 90.0 %

.format method

Student ID =123

Student Name = Narsi

Sub1 Marks = 80.0

Sub2 Marks = 90.0

Sub3 Marks = 100.0

Total Marks = 270.0

Percentage = 90.0%

F string print method

Student ID =123

Student Name = Narsi

Sub1 Marks=80.0

Sub2 Marks=90.0

Sub3 Marks = 100.0

Total Marks=270.0

Percentage=90.0%

## **Operators**:

- -They are used for assigning values to variables and performing calculations.
- -It is a special symbol to perform certain operation b/w operands

$$ex: a = 3$$

= operator

a,3 operands

$$z = x + y$$

+,= operators

x,y,z operands

## **Types of operators:**

- 1. Arithmetic Operators: + \* % / // \*\*
- 2. Comparision or Relational Operators: > < = <= >= !=
- 3. Logical Operators: and or not
- 4. Assignment Operators: = += -= \*= /= //= % = \*\*=
- 5. Bitwise Operators: &  $|\sim>><$
- 6. Identity Operators: is is not
- 7. Membership Operators: in not in
- 1. Take two inputs from the user and perform all arithmetic operation and print all the outputs.

```
num1 = float(input("Enter a number: "))
```

num2 = float(input("Enter one more number: "))

```
Add = num1 + num2
Sub = num1 - num2
Mul = num1 * num2
Div = num1 / num2
Mod = num1 \% num2
Floor = num1 // num2
exp = num1 ** num2
print(f"Addition = {Add}\nSubtraction = {Sub}\nMultiplication =
 \{Mul\}\nDivision = \{Div\}\nModulus = \{Mod\}\nFloor\ Division = \{Mod\}\nFl
 {Floor} \setminus Exponentation = {exp}''
Enter a number: 3
Enter one more number: 5
Addition = 8.0
Subtraction = -2.0
Multiplication = 15.0
Division = 0.6
Modulus = 3.0
Floor Division = 0.0
Exponentation = 243.0
Another method
num1 = float(input("Enter a number: "))
num2 = float(input("Enter one more number: "))
```

```
print(f"Addition of {num1} and {num2} is {num1+num2}\nSubtraction of
{num1} and {num2} is {num1-num2}\nMultiplication of {num1} and {num2}
is {num1*num2}\nDivision of {num1} and {num2} is {num1/num2}\nModulus
of {num1} and {num2} is {num1\%num2}\nFloor Division of {num1} and
{num2} is {num1//num2}\nExponentation of {num1} and {num2} is
{num1**num2}")
Enter a number: 8
Enter one more number: 2
Addition of 8.0 and 2.0 is 10.0
Subtraction of 8.0 and 2.0 is 6.0
Multiplication of 8.0 and 2.0 is 16.0
Division of 8.0 and 2.0 is 4.0
Modulus of 8.0 and 2.0 is 0.0
Floor Division of 8.0 and 2.0 is 4.0
Exponentation of 8.0 and 2.0 is 64.0
x = 15
y = 40
print(x < y)
print(x>y)
print(x!=y)
print(x==y)
print(x \le y)
print(x>=y)
True
```

False

True False True False and: all conditions should be true or: atleast one condition should be true not : vice versa XOR: all conditions should be same(all conditions should pass or all conditions should fail) XNOR: all conditions shouldnot be same(all conditions shouldnot pass or all conditions shouldnot fail) a b and or XOR XNOR F F F F T F F T F T TFFT F TTTTF a not TF F T a = 7b = 8print(a>10 and b<10) print(a!=10 and b<10)

```
print(a<10 and b<10)
False
True
True

True

print(a>10 or b<10)

print(a==10 or b>10)

print(a<10 or b<10)

True

False

True

print(not(True))

print(not(False))

False

True
```