Darshan UNIVERSITY

योग: कर्मसु कौशलम्

Python Programming - 2301CS404

Lab - 2

Roll No.: 418

Name: PARMAR BHAVIIK A.

01) WAP to print “Hello World..!!”

In [1]:
```
print("Hello World..!!")
```

```
Hello World..!!
```

02) WAP to accept your name and display a welcome message.

Input: Priya

Output: Hello Priya, welcome to Python Lab.

In [ ]:
```
name = input("Enter Your Name : ")
print(f"Hello, {name}, Welcome To Python LAB")
```

03) WAP to accept three integers and display the numbers, their sum, and average.

Input: 10 20 30

Output:

Numbers: 10 20 30

Sum: 60

Average: 20.0

In [ ]:
```
num1 = int(input("Enter Number1 : "))
num2 = int(input("Enter Number2 : "))
num3 = int(input("Enter Number3 : "))
```

```
sum = num1 + num2 + num3
avg = sum/3

print("Sum Of Three Number : " , sum)
print("Avg Of Three Number : " , avg)
```

04) WAP to accept name (string), age (int), and percentage (float).

Input : Riya,18,92.5

Output :

Name: Riya Type: <class 'str'>

Age: 18 Type: <class 'int'>

Percentage: 92.5 Type: <class 'float'>

In [ ]:
```
name = input("Enter Your Name : ")
age = int(input("Enter Your Age : "))
percentage = float(input("Enter Your Percentage : "))

print(name, type(name))
print(age, type(age))
print(percentage, type(percentage))
```

05) WAP to print folowing message using custom separator and end.

Ouutput : Python | Programming | Basics###

In [ ]:
```
print("Python", "Programming", "Basic")
```

06) WAP to accept a value and display its value, type, and memory id.

Input : hello

Output :

Value: hello

Type: <class 'str'>

ID: 140712345678912

In [ ]:
```
value = input("Enter Something : ")
print(value)
print("Type : ", type(value))
print("ID : ", id(value))
```

07) WAP to assign a value to a variable, print id, reassign a new value, and print id again.

Output :

Original ID of a: 140712345678912

New ID of a: 140712345678960

In [ ]:
```
value = 10
print("Original ID : ", id(value))
value = 20
print("New ID : ", id(value))
```

08) WAP to print multiple lines using a single print().

Output:

Welcome to Python

This is the second lab

Enjoy coding!

In [ ]:
```
print("""Welcoe To Python
This is the second lab
Enjoy coding! """)
```

09) WAP to display following table of items with proper alignment.

Output :

Sr No	Name	Subject	Grade	Percentage
1	Nisha Patel	Math	A	92
2	Aarav Modi	Science	B+	85
3	Jiya Shah	English	A+	96

In [ ]:
```
print(f"{'Sr No.' : ^7} {'Name' : ^15} {'Subject' : ^12} {'Grade' : ^12} {'Perce
print(f"{'1' : ^7} {'Nisha Patel' : ^15} {'Math' : ^8} {'A' : ^15} {'92' : ^15}"
print(f"{'2' : ^7} {'Narav Modi' : ^15} {'Science' : ^12} {'B+' : ^8} {'85' : ^2
print(f"{'3' : ^7} {'Jiya Shah' : ^13} {'English' : ^15} {'A+' : ^6} {'96' : ^23
```

10) WAP to accept a float number and display with 2 decimals, 3 decimals, and width 10.

Input : 37.2567

Output :

2 decimals: 37.26

3 decimals: 37.257

Width 10: 37.26

In [ ]:
```
num = float(input("Enter Float Number : "))
print(f"2 Decimal : {num : .2f}")
print(f"3 Decimal : {num : .3f}")
print(f"Width 10 : {num: 10.2f}")
```

11) WAP to accept two integers and display sum, difference, and product using f-strings.

Input : 12 8

Output :

Sum = 20

Difference = 4

Product = 96

In [ ]:
```
a, b = input("Enter Two Number : ").split(' ')
a = int(a)
b = int(b)
print("Sum OF Two Number : ", (num1+num2))
print("Difference OF Two Number : ", (num1-num2))
print("Product OF Two Number : ", (num1*num2))
print("Mod OF Two Number : ", (num1%num2))
```

12) WAP to accept date in dd mm yyyy format and display in multiple formats.

Input : 01 12 2025

Output :

01/12/2025

2025-12-01

In [ ]:
```
date, month, year = input("Enter Date (in dd mm yyyy format) : ").split(' ')
print(f"{date}/{month}/{year}")
print(date, month, year, sep="/")
print(f"{year}-{month}-{date}")
print(year, month, date, sep="-")
```

13) WAP to calculate area and perimeter of a circle.

In [ ]:
```
radius = float(input("Enter Rad : "))
print("Area OF Circle : ", 3.1415 * radius * radius)
print("Perameter OF Circle : ", 2 * 3.1415 * radius)
```

14) WAP to convert degree into Fahrenheit and vice versa.

In [ ]:
```
celsius = float(input("Enter Temp in Celsius: "))
fahrenheit = (celsius * 9/5) + 32
print("Temperature in Fahrenheit =", fahrenheit)
```

```
fahrenheit = float(input("Enter temperature in Fahrenheit: "))
celsius = (fahrenheit - 32) * 5/9
print("Temperature in Celsius =", celsius)
```

15) WAP to get the distance from user into kilometer, and convert it into meter, feet, inches and centimeter.

In [ ]:
```
km = float(input("Enter Distance (in KM): "))

meter = km * 1000
centimeter = km * 100000
feet = km * 3280.84
inch = km * 39370.1

print("Distance in Meter =", meter)
print("Distance in Centimeter =", centimeter)
print("Distance in Feet =", feet)
print("Distance in Inches =", inch)
```

In [ ]:
```

```