

Python Programming - 2301CS404

Lab - 2

Manav Delvadiya

24010101056

Roll No. - 333

01) WAP to print "Hello World..!!"

In [2]: `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 [4]: `name = input("Enter a Name :");
print(f"Hello {name}, welcome to Python Lab");`

Hello Manu, 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 [7]: # a,b,c = int(input("Enter a Three Number"));
# Error
a = int(input("Enter a n1 :"));
b = int(input("Enter a n2 :"));
c = int(input("Enter a n3 :"));

print(f"Numbers: {a} {b} {c}")
print(f"Sum:{a+b+c}")
print(f"Average:{(a+b+c)/3}")
```

Numbers: 10 20 30

Sum:60

Average:20.0

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 [9]: name = str(input("Enter a Name :"));
age = int(input("Enetr a Age :"));
percentage = float(input("ENetr a Percentage :"));

print(f"Name : {name},f"Type: {type(name)}")
print(f"Age : {age},f"Type: {type(age)}")
print(f"Percentage : {percentage},f"Type: {type(percentage)}")
```

Name : Riya Type: <class 'str'>

Age : 18 Type: <class 'int'>

Percentage : 92.5 Type: <class 'float'>

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

Ououtput : Python | Programming | Basics###

```
In [17]: print("Python","Programming","Basic",sep=" | ",end="###")
```

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 [19]: var = input("Enter a Word : ");
print(f"Value:{var}");
print(f"Type:{type(var)}");
print(f"ID:{id(var)}");
```

Value:hello

Type:<class 'str'>

ID:2570389449360

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 [24]: var = 10;
print(f"Value:{var}");
print(f"Type:{type(var)}");
print(f"Original ID of a:{id(var)}");
var = 20;
print(f"New ID of a:{id(var)}");
var = 10;
print(f"Hellooooo ID of a:{id(var)}");
```

Value:10

Type:<class 'int'>

Original ID of a:140719354131656

New ID of a:140719354131976

Hellooooo ID of a:140719354131656

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

Output:

Welcome to Python

This is the second lab

Enjoy coding!

```
In [29]: print("""
Welcome to Python
This is the second lab
Enjoy coding!
""");
```

Welcome 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 [43]: print(f" {'Sr No':^10} {'name':>10} {'subject':>10} {'Grade':>10} {'percentage':>10}")
print(f" {'1':>10} {'Nisha Patel':>10} {'Math':>10} {'A':>9} {'92':>10}")
print(f" {'2':>10} {'Aarav Modi':>11} {'Science':>10} {'B+':>10} {'85':>9}")
print(f" {'3':>10} {'Jiya Shah':>10} {'English':>11} {'A+':>10} {'96':>9}")
```

Sr No	name	subject	Grade	percentage
1	Nisha Patel	Math	A	92
2	Aarav Modi	Science	B+	85
3	Jiya Shah	English	A+	96

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 [31]: num = float(input("Enter a Number :"));
print(f"2 decimals:{num:.2f}");
print(f"3 decimals:{num:.3f}");
print(f"Width 10:{num:10.2f}");
```

2 decimals:37.26

3 decimals:37.257

Width 10: 37.26

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 [44]: n1 = int(input("Enter a n1 :"));
n2 = int(input("Enter a n2 :"));
print(f"Sum = {n1+n2}");
print(f"Difference = {n1-n2}");
print(f"Product = {n1*n2}");
```

Sum = 20

Difference = 4

Product = 96

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 [47]: date = input("Enter a Date (dd mm yyyy) :");
[dd,mm,yyyy] = date.split(" ");

print(dd,mm,yyyy,sep="/");
print(yyyy,mm,dd,sep="-");
```

01/12/2025

2025-12-01

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

```
In [53]: import math

r = float(input("Enter a radius :"))
perimeter = 2 * math.pi * r;
area = math.pi * r * r;
print(f"Perimeter = {perimeter}")
print(f"Area = {area}");
```

Perimeter = 31.41592653589793

Area = 78.53981633974483

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

```
In [55]: deg = float(input("Enter a Degree :"));
fah = float(input("Enter a Fahrenhit : "));

degToFah = (deg * 1.8) + 32;
fahToDeg = (fah - 32)/1.8;

print(f"degToFah : {degToFah}");
print(f"fahToDeg : {fahToDeg}");
```

```
degToFah : 41.0
fahToDeg : 5.0
```

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

```
In [56]: distKm = int(input("Enter a Distance in Kilometer : "));

meter = (distKm) * 1000;
feet = (distKm) * 3280.84;
inch = (distKm) * 39370.1;
centimeter = (distKm) * 100000;

print(f"{distKm} KM = {meter} Meter")
print(f"{distKm} KM = {feet} Feet")
print(f"{distKm} KM = {inch} Inches")
print(f"{distKm} KM = {centimeter} Centimeter");
```

```
5 KM = 5000 Meter
5 KM = 16404.2 Feet
5 KM = 196850.5 Inches
5 KM = 500000 Centimeter
```