

Python Programming - 2301CS404

Lab - 2

Vishva M. Bhimani
24010101026

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

```
In [ ]: 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 [5]: name = input("enter your name")  
print("Hello " + name + ", Welcome to Python Lab")
```

enter your name Vishva
Hello Vishva, 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 [20]: a,b,c = input("enter number a,b,c").split(",")  
a = int(a)  
b = int(b)  
c = int(c)  
print(f"a : {a} , b: {b} , C : {c}")  
print("sum is : " , (a+b+c))  
print ("avg is : " , (a+b+c)/3)
```

```
enter number a,b,c 10,20,30
a : 10 , b: 20 , C : 30
sum is : 60
avg is : 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 [28]: name,age,percentage = input("enter name, age , percentage(comma seprated)").split("
age = int(age)
percentage = float(percentage)
print("name is : ", name ," Type : " , type(name))
print("age is : ", age ," Type : " , type(age))
print("percentage is : ", percentage ," Type : " , type(percentage))
```

```
enter name, age , percentage(comma seprated) vishva,18,99.13
name is : vishva Type : <class 'str'>
age is : 18 Type : <class 'int'>
percentage is : 99.13 Type : <class 'float'>
```

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

Ououtput : Python | Programming | Basics###

```
In [26]: 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 [31]: name = input("enter your name")
print("value : ", name)
print("Type : ", type(name))
print("ID : " , id(name))
```

```
enter your name vishva
value : vishva
Type : <class 'str'>
ID : 2814503228960
```

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 [33]: ID = 20
print("ID : " , id(ID))
ID = 30000
print("ID : " , id(ID))
```

```
ID : 140726923671048
ID : 2814514014000
```

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

Output:

Welcome to Python

This is the second lab

Enjoy coding!

```
In [36]: 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

Sr No	Name	Subject	Grade	Percentage
2	Aarav Modi	Science	B+	85
3	Jiya Shah	English	A+	96

```
In [53]: print(f"{'Sr No' : ^4} {'Name' : ^15} {'Subject' : ^10} {'Grade' : ^8} {'Percentage' : ^8} ")
print(f"{'1' : >4} {'Nisha Patel' : <15} {'Math' : >10} {'A' : ^8} {'92' : >10} ")
print(f"{'2' : >4} {'Arav Modi' : <15} {'Science' : >10} {'B+' : ^8} {'85' : >10} ")
print(f"{'3' : >4} {'Jiya Shah' : <15} {'English' : >10} {'A+' : ^8} {'96' : >10} ")
```

Sr No	Name	Subject	Grade	Percentage
1	Nisha Patel	Math	A	92
2	Arav 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 [68]: num = float(input("enter your number: "))
print(f"2 decimal :{num :.2f} ")
print(f"3 decimal :{num :.3f} ")
print(f"Width 10 :{num : 10.2f} ")
```

```
enter your number: 37.2657
2 decimal :37.27
3 decimal : 37.266
Width 10 :    37.27
```

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 [62]: a,b = input("enter number a,b :").split(",")
a = int(a)
b = int(b)
```

```
print("Sum = ",(a+b))
print("Difference = " , (a-b))
print("Product = " , (a*b))
```

enter number a,b : 12,8
 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 [70]: d,m,y = input("enter date in formate dd mm yyyy :").split(",")
print( d, m , y , sep="/")
print( y, m , d , sep="-")
```

enter date in formate dd mm yyyy : 01,12,2025
 01/12/2025
 2025-12-01

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

```
In [74]: r = float(input("enter your number"))
print("area is : " , (3.14*r*r))
print("area is : " , (2*r*r))
```

enter your number 3
 area is : 28.259999999999998
 area is : 18.0

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

```
In [5]: d = float(input("enter degree " ))
f = float(input("enter fernhit " ))
print("fernhit :" , (d*1.8)+32)
print("In Degree :" , (f-32)*0.555)
```

fernhit : 75.2
 In Degree : 47.730000000000004
 fernhit : 113.0
 In Degree : 47.730000000000004

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

```
In [7]: d = float(input("enter your distance in kilometer "))
        print("dis in meter " , (d*1000))
        print("dis in feet ", (3280.84*d))
        print("dis in inches ", (39370.1*d))
        print("dis in centimeter", (d*100000))
```

```
dis in meter 1000000.0
dis in feet 3280840.0
dis in inches 39370100.0
dis in centimeter 100000000.0
```

```
In [ ]:
```