

# Python Programming - 2301CS404

## Lab - 2

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### 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 [3]: name = input("Enter your Name : ")
print(f"Hello {name}, welcome to Python Lab")
Hello Hill, 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 [8]: a, b, c = input("Enetr 3 numbers : ").split(' ')
a = int(a)
b = int(b)
c = int(c)
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 [10]: name = input("enter your name : ")
age = int(input("Enter your age : "))
per = float(input("Enter your percentage : "))
print(f"Name : {name} Type : {type(name)}")
print(f"Age : {age} Type : {type(age)}")
print(f"Percentage : {per} Type : {type(per)}")

Name : hill Type : <class 'str'>
Age : 19 Type : <class 'int'>
Percentage : 99.8 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 [18]: st = input("Enter a value : ")
print(f"Value : {st}")
print(f"Type : {type(st)}")
print(f"ID : {id(st)}")

Value : Hill
Type : <class 'str'>
ID : 2282438134256
```

### 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 [20]: a = 10
print(f"Original ID of a : {id(a)}")
a = 20
print(f"New ID of a : {id(a)}")
```

Original ID of a : 140724308849864  
New ID of a : 140724308850184

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

**Output:**

Welcome to Python

This is the second lab

Enjoy coding!

```
In [22]: 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 [32]: print(f'{Sr No:^10} {'Name':^10} {'Subject':^15} {'Grade':^10} {'Percentage':^10}')
print(f'{1:^10} {'Nisha Patel':^10} {'Math':^10} {'A':^17} {'92':^5}')
print(f'{2:^10} {'Aarav Modi':^10} {'Science':^15} {'B+':^10} {'85':^10})
print(f'{3:^10} {'Jiya Shah':^10} {'English':^15} {'A+':^10} {'96':^10})
```

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 [36]: a = float(input("Enter a number : "))
print(f"2 decimals:{a: .2f}")
print(f"3 decimals:{a: .3f}")
print(f"Width:{a:10.2f}")
```

2 decimals: 45.36  
3 decimals: 45.365  
Width: 45.36

### 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 [38]: a, b = input("Enter 2 numbers").split(' ')
a = int(a)
b = int(b)
print(f"Sum : {a+b}")
print(f"Difference : {a-b}")
print(f"Product : {a*b}")
```

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 [42]: d,m,y = input("Enter 3 numbers").split(' ')
d = int(d)
m = int(m)
y = int(y)
print(d,m,y , sep = "/")
print(y,m,d , sep = "-")
```

1/12/2025  
2025-12-1

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

```
In [48]: import math as m
```

```
In [49]: r = float(input("Enter a radius : "))
print(f"area : {m.pi * r * r}")
print(f"Perimeter : {2 * m.pi * r}")
```

area : 314.1592653589793  
Perimeter : 62.83185307179586

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

```
In [51]: d = float(input("Enter a degree : "))
print(f"Fahrenheit : {(d + 9 / 5) + 32}")
```

```
f = float(input("Enter a Fahrenheit : "))
print(f"Fahrenheit : {(f - 32) * 5 / 9}")

Fahrenheit : 78.8
Fahrenheit : 7.222222222222222
```

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

```
In [52]: d = float(input("Enter a kilometer : "))
print(f"meter : {(d * 1000)}")
print(f"feet : {(d * 3280.84)}")
print(f"inches : {(d * 39370.1)}")
print(f"centometer : {(d * 100000)}")

meter : 2000.0
feet : 65616.8
inches : 787402.0
centometer : 2000000.0
```