

# Python Programming - 2301CS404

## Lab - 2

Prince S. Chandpa  
24010101034

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 [3]: name = input('Enter your name: ')  
print(f'Hello {name}, Welcome to Python Lab.')  
  
Hello Prince, 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 [5]: a = int(input("Enter a: "))  
b = int(input("Enter b: "))  
c = int(input("Enter 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 [7]: name, age, percentage = input('Enter your Name, Age, Percentage:').split()
age = int(age)
percentage = float(percentage)

print(f'Name: {name} Type: {type(name)}')
print(f'Age: {age} Type: {type(age)}')
print(f'Percentage: {percentage} Type: {type(percentage)}')

Name: Prince Type: <class 'str'>
Age: 19 Type: <class 'int'>
Percentage: 9.21 Type: <class 'float'>
```

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

Ououtput : Python | Programming | Basics###

```
In [10]: 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 [11]: data = input('Enter Data:')

print(f"""Value: {data}
Type: {type(data)}
ID: {id(data)}
""")
```

```
Value: hello
Type: <class 'str'>
ID: 135005189404304
```

**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 [14]: a = 10
print(f'Original ID of a: {id(a)}')

a = 11
print(f'New ID of a: {id(a)}')
```

Original ID of a: 10820592

New ID of a: 10820624

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

**Output:**

Welcome to Python

This is the second lab

Enjoy coding!

```
In [15]: 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 [35]: print(f"""
{'Sr No':^5} {'Name':<12} {'Subject':<8} {'Grade':^10} {'Perce
{'1':>6} {'Nisha Patel':<12} {'Math':<8} {'A':^10} {'92':>10}
{'2':>6} {'Aarav Modi':<12} {'Science':<8} {'B+':^10} {'85':>10}
{'3':>6} {'Jiya Shah':<12} {'English':<8} {'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 [37]: data=float(input("enter number "))
print(f"2 decimals: {data:.2f}")
print(f"3 decimals: {data:.3f}")
print(f"Width 10: {data:10.2f}")
```

2 decimals: 37.36

3 decimals: 37.357

Width 10: 37.36

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 [1]: a,b = input('Enter Numbers(a b)').split()

a = int(a)
b = int(b)

print(f"""Sum = {a + b}
Difference = {a - b}
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 [2]: d, m, y = input('Ennter Date:').split()

print(d, m, y, sep='/')
print(y, m, d, sep=' - ')
```

01/12/2025

2025-12-01

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

```
In [3]: radius = float(input("enter radius"))
area = 3.14*(radius**2)
perimeter = 3.14*2*radius
print(f"Area: {area}", f"Perimeter: {perimeter}", sep='\n')
```

Area: 314.0

Perimeter: 62.800000000000004

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

```
In [5]: c=float(input("Enter C:"))
print(f"F = {((c*1.8)+32)}")

f=float(input("Enter F:"))
print(f"C = {(f-32)/1.8}")
```

F = 50.0

C = 10.0

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

```
In [7]: kilometer = float(input("Enter Distance(in km):"))

meter = kilometer*1000
inch = meter*39.3701
feet = meter*3.28084
centimeter = meter*100

print(f"Kilometer: {kilometer}km")
print(f"meter: {meter}m")
print(f"inch: {inch}\"")
print(f"feet: {feet}'")
print(f"centimeter: {centimeter}cm")
```

Kilometer: 100.0km

meter: 100000.0m

inch: 3937010.0"

feet: 328084.0'

centimeter: 10000000.0cm

In [ ]: