

Python Programming - 2301CS404

Lab - 2

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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 folowing message using custom separator and end.

Ooutput : 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}")
```

2decimals: 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 []: