Darshan UNIVERSITY

योगः कर्मसु कौशलम्

Python for Data Science - 2305CS303

Lab - 1

Roll No. : 111

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1. WAP to print “Hello World”

In [4]:
```
print("Hello World")
```

```
Hello World
```

2. WAP to print your address i) using single print ii) using multiple print

In [5]:
```
print("Dhara M.","221B Baker Street","Delhi, India - 110001", sep="\n")
#multiple print
print("====================")
print("Dhara M")
print("221B Baker Street")
print("Delhi, India - 110001")
```

```
Dhara M.
221B Baker Street
Delhi, India - 110001
====================
Dhara M
221B Baker Street
Delhi, India - 110001
```

3. WAP to print addition of 2 numbers (without input function)

In [1]:
```
a=10
```

```
b=20
print(a,"+",b," = ",a+b)
```

```
10 + 20  =  30
```

4. WAP to calculate and print average of 2 numbers (without input function)

In [2]:
```
num1 = 20
num2 = 30
avg = (num1 + num2) / 2
print("Average -",avg)
```

```
Average - 25.0
```

5. WAP to add two number entered by user.

In [3]:
```
n1 = float(input("Enter first number: "))
n2 = float(input("Enter second number: "))
print("Sum =", n1 + n2)
```

```
Sum = 30.0
```

6. WAP to calculate area of circle.

In [9]:
```
r = float(input("Enter radius: "))
area = 3.14159 * r * r
print("Area of circle is", area)
```

```
Enter radius:  30
Area of circle is 2827.431
```

7. Purposefully raise Indentation Error and Correct it.

In [11]:
```
a,b=10,20
#error
if a > b:
print(a)

#corrected
if a>b:
    print("a is greater")
```

```
  Cell In[11], line 4
    print(a)
    ^
IndentationError: expected an indented block after 'if' statement on line 3
```

8. WAP to calculate simple interest

In [4]:
```
p = float(input("Enter principal amount: "))
r = float(input("Enter rate: "))
t = float(input("Enter time period: "))
si = (p * r * t) / 100
print("Simple Interest is", si)
```

```
Simple Interest is 240.0
```

9. WAP Calculate Area and Circumference of Circle.

In [13]:
```
r = float(input("Enter radius: "))
area = 3.14159 * r * r
circumference = 2 * 3.14159 * r
print("Area is", area)
print("Circumference is", circumference)
```

```
Enter radius:  30
Area is 2827.431
Circumference is 188.4954
```

10. WAP to print Multiplication table of given number.

In [14]:
```
n = int(input("Enter a number: "))
print(n, "* 1 =", n * 1)
print(n, "* 2 =", n * 2)
print(n, "* 3 =", n * 3)
print(n, "* 4 =", n * 4)
print(n, "* 5 =", n * 5)
print(n, "* 6 =", n * 6)
print(n, "* 7 =", n * 7)
print(n, "* 8 =", n * 8)
print(n, "* 9 =", n * 9)
print(n, "* 10 =", n * 10)
```

```
Enter a number:  12
12 * 1 = 12
12 * 2 = 24
12 * 3 = 36
12 * 4 = 48
12 * 5 = 60
12 * 6 = 72
12 * 7 = 84
12 * 8 = 96
12 * 9 = 108
12 * 10 = 120
```

11. WAP to calculate Area of Triangle. (hint: a = h*b*0.5)

In [5]:
```
b = float(input(" base: "))
```

```
h = float(input(" height: "))
area = 0.5 * b * h
print("Area - ", area)
```

```
Area -  675.0
```

12. WAP to convert Degree to Fahrenheit and vice versa.

In [6]:
```
c = float(input("Enter Celsius: "))
f = (c * 9/5) + 32
print("Fahrenheit is ", f)

f = float(input("Enter Fahrenheit: "))
c = (f - 32) * 5/9
print("Celsius is - ", c)
```

```
Fahrenheit is  73.4
Celsius is -  7.222222222222222
```

13.WAP to calculate total marks and Percentage.

In [7]:
```
m1 = float(input("subject 1: "))
m2 = float(input("subject 2: "))
m3 = float(input("subject 3: "))
m4 = float(input("subject 4: "))
m5 = float(input("subject 5: "))
total = m1 + m2 + m3 + m4 + m5
percentage = (total / 500) * 100
print("Total - ", total)
print("Percentage - ", percentage)
```

```
Total -  340.0
Percentage -  68.0
```