



Python for Data Science - 2305CS303

Lab - 1

Roll No. : 135

Name : Nikhil Rathod

1. WAP to print "Hello World"

```
In [2]: print("Hello")
```

Hello

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

```
In [7]: print("Jamnagar Gujarat Street 5 pincode 361004")
print("Jamnagar")
print("Gujarat")
print("Street 5")
print("Pincode 361004")
print("India")
```

Jamnagar Gujarat Street 5 pincode 361004

Jamnagar

Gujarat

Street 5

Pincode 361004

India

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

```
In [1]: num1 = 10
num2 = 20
res = num1 + num2
print(res)
```

30

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

```
In [11]: a = 50
b = 20
ans = a+b
avg = ans/2
print(ans)
print(avg)
```

```
70
35.0
```

5. WAP to add two number entered by user.

```
In [4]: a = int(input("Enter Number 1 : "))
b = int(input("Enter Number 2 : "))
ans = a+b
print(ans)
```

```
40
```

6. WAP to calculate area of circle.

```
In [5]: r = int(input("Enter Number : "))
ans = 3.14 * r * r
print(ans)
```

```
7850.0
```

7. Purposefully raise Indentation Error and Correct it.

```
In [12]: a = 10
b = 10
if(a == b):
print("Equal")
else:
print("Not Equal!")

# a = 10
# b = 10
# if(a == b):
#     print("Equal")
# else:
#     print("Not Equal!")
```

```
Cell In[12], line 4
    print("Equal")
    ^
```

IndentationError: expected an indented block after 'if' statement on line 3

8. WAP to calculate simple interest

```
In [7]: p = int(input("Enter Number Amount : "))
r = int(input("Enter Number Interest : "))
n = int(input("Enter Number Month : "))
```

```
ans = ((p * r * n)/100)
print(ans)
```

210000.0

9. WAP Calculate Area and Circumference of Circle.

```
In [8]: r = int(input("Enter Number Rate : "))
ans = 2 * 3.14 * r
print(ans)
```

31.400000000000002

10. WAP to print Multiplication table of given number.

```
In [13]: num = int(input("Enter Number : "))
for i in range(1,11):
    print(num , " x " , i , " = " , (num*i))
```

```
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```

11. WAP to calculate Area of Triangle. (hint: a = hb0.5)

```
In [14]: h = int(input("Enter Height : "))
b = int(input("Enter Base : "))
res = (h*b*0.5)
print(res)
```

10.0

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

```
In [21]: # Celsius to Fahrenheit
cel = float(input("Enter Number : "))
res = ((cel*(9/5))+32)
print(res)

# Fahrenheit to Celsius
fah = float(input("Enter Number : "))
res = (fah-32)*5/9
print(res)
```

113.0

45.0

13.WAP to calculate total marks and Percentage.

```
In [2]: num = int(input("Enter Number of Subjects: "))
sum = 0
for i in range(1, num+1):
    sub = int(input("Enter Marks: "))
    sum = sum + sub
print("Total Marks:", sum)
print("Percentage:", (sum/(num*100))*100)
```

Total Marks: 400

Percentage: 80.0

In []: