(https://www.darshan.ac.in/)

Python Programming - 2101CS405

Lab - 1

01) WAP to print “Hello World”

In [1]:
```
print('Hello World')
```

```
Hello World
```

02) WAP to print your address i) using single print ii) using multiple print

In [8]:
```
print("New Shakti Soc. Street-1,  \nMarketing Yard Road, \nRajkot-360003 \n \n")

print("New Shakti Soc. Street-1,")
print("Marketing Yard Road,")
print("Rajkot-360003")
```

```
New Shakti Soc. Street-1,
Marketing Yard Road,
Rajkot-360003


New Shakti Soc. Street-1,
Marketing Yard Road,
Rajkot-360003
```

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

In [11]:
```
a=4
b=23

print("sum:",a+b)
```

```
sum: 27
```

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

In [12]:
```
a=22
b=28

print("avg:",(a+b)/2)
```

```
avg: 25.0
```

05) WAP to add two number entered by user.

In [13]:
```
a=int(input("Enter Number A:"))
b=int(input("Enter Number B:"))

print("Sum:",a+b)
```

```
Enter Number A:23
Enter Number B:25
Sum: 48
```

06) WAP to calculate simple interest.

In [15]:
```
P=int(input("Enter Amount:"))
R=int(input("Enter rate of Intrest:"))
N=int(input("Enter Number of year:"))

print("interest:",(P*R*N)/100)
```

```
Enter Amount:10000
Enter rate of Intrest:5
Enter Number of year:3
interest: 1500.0
```

07) WAP Calculate Area and Circumfrence of Circle

In [19]:
```
r=int(input("Enter radius of Circle:"))


print("Enter Area of Circle:",(3.14*r*r))

print("Circumfrence of Circle: ",2*(3.14*r))
```

```
Enter radius of Circle:5
Enter Area of Circle: 78.5
Circumfrence of Circle:  31.400000000000002
```

```
### 08) WAP to print Multiplication table of given number without using loops.
```

In [24]:
```
A=int(input("Enter a Number:"))

print(A," X 1  = ",A*1)
print(A," X 2  = ",A*2)
print(A," X 3  = ",A*3)
print(A," X 4  = ",A*4)
print(A," X 5  = ",A*5)
print(A," X 6  = ",A*6)
print(A," X 7  = ",A*7)
print(A," X 8  = ",A*8)
print(A," X 9  = ",A*9)
print(A," X 10 = ",A*10)
```

```
Enter a Number:3
3  X 1  =  3
3  X 2  =  6
3  X 3  =  9
3  X 4  =  12
3  X 5  =  15
3  X 6  =  18
3  X 7  =  21
3  X 8  =  24
3  X 9  =  27
3  X 10 =  30
```

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

In [25]:
```
h=int(input("enter a number:"))
b=int(input("enter a number:"))

print("Area of Triangle:",h*b*0.5)
```

```
enter a number:2
enter a number:3
Area of Triangle: 3.0
```

10) WAP to convert degree to Fahrenheit and vice versa.

In [27]:
```
c=float(input("Enter Degree:"))

print("Fahrenheit",(c*9/5)+32)

f=float(input("enter Fahrenhit:"))

print("Degree:",(f-32)*5/9)
```

```
Enter Degree:0
Fahrenheit 32.0
enter Fahrenhit:32
Degree: 0.0
```

11) WAP to calculate total marks and Percentage.

In [29]:
```
phy=int(input("Enter Physics marks:"))
mat=int(input("Enter Maths marks:"))
che=int(input("Enter Chemistry marks:"))

print("Total Marks:",phy+mat+che)


print("Percentage:",(phy+mat+che)/3,"%")
```

```
Enter Physics marks:82
Enter Maths marks:78
Enter Chemistry marks:80
Total Marks: 240
Percentage: 80.0 %
```

12) Compute distance between two points taking input from the user (Pythagorean Theorem).

In [34]:
```
import math

ab=int(input("enter A to B distance:"))
bc=int(input("enter B to c distance:"))
print("A to C :", math.sqrt((ab*ab)+(bc*bc)))
```

```
enter A to B distance:7
enter B to c distance:24
A to C : 25.0
```

13) WAP to convert seconds into hours, minutes & seconds and print in HH:MM:SS

[e.g. 10000 seconds mean 2:46:40 (2 Hours, 46 Minutes, 40Seconds)]

In [1]:
```
ss=int(input("Enter Seconds:"))
mm=0
hh=0
while(ss>3600):
    ss-=3600
    hh+=1
while(ss>60):
    ss-=60
    mm+=1
print(hh,":",mm,":",ss)
```

```
Enter Seconds:10000
2 : 46 : 40
```

14) WAP to enter distance into kilometer and convert it into meter, feet,inches, and centimeter

In [3]:
```
Km=int(input("enter Kilometer:"))

print("Meters:",Km*1000)
print("Feets:",Km*3280.8399)
print("Inches:",Km*39370.0787)
print("centimeter:",Km*100000)
```

```
enter Kilometer:1
Meters: 1000
Feets: 3280.8399
Inches: 39370.0787
Meter: 100000
```

In [ ]:
```

```