In [ ]:
```
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```

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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 [4]:
```
# Using single print

print('Near Hadala, Rajkot-Morbi highway, Rajkot -363650')

# Using Multiple print

print('Near Hadala')
print('Rajkot-Morbi highway')
print('Rajkot -363650')
```

```
Near Hadala, Rajkot-Morbi highway, Rajkot -363650
Near Hadala
Rajkot-Morbi highway
Rajkot -363650
```

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

In [5]:
```
print('Add = ', 10+20)
```

```
Add =  30
```

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

In [6]:
```
print('Avg = ', (10+2+30)/3)
```

```
Avg =  14.0
```

05) WAP to add two number entered by user.

In [8]:
```
a = int(input('Enter a : '))
b = int(input('Enter b : '))

print('Add = ', a+b)
```

```
Enter a : 10
Enter b : 20
Add =  30
```

06) WAP to calculate simple interest.

In [9]:
```
p = float(input('Enter p : '))
r = float(input('Enter r : '))
n = float(input('Enter n : '))

print('Interest = ', (p * r * n) / 100)
```

```
Enter p : 10000
Enter r : 10
Enter n : 1
Interest =  1000.0
```

In [ ]:
```

```

07) WAP Calculate Area and Circumfrence of Circle

In [10]:
```
r = float(input('Enter redius : '))

print('Area = ', (3.14 * r * r))

print('Circumfrence = ', (2 * 3.14 * r))
```

```
Enter redius : 10
Area =  314.0
Circumfrence =  62.800000000000004
```

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

In [13]:
```
n = int(input('Enter the 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 the number : 1
1  *  1  =  1
1  *  2  =  2
1  *  3  =  3
1  *  4  =  4
1  *  5  =  5
1  *  6  =  6
1  *  7  =  7
1  *  8  =  8
1  *  9  =  9
1  *  10  =  10
```

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

In [14]:
```
h = float(input('Enter height : '))
b = float(input('Enter base : '))

print('Area = ', (h * b * 0.5))
```

```
Enter height : 10
Enter base : 20
Area =  100.0
```

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

In [15]:
```
c = float(input('Enter temperature in celcius : '))
f = f = (c * (9 / 5)) + 32

print('Fehrenhit = ', f)

f =float(input('Enter temperature in fehrenhit : '))

c = (f - 32 ) * (9 / 5)

print('Celcius = ', c)
```

```
Enter temperature in celcius : 0
Fehrenhit =  32.0
Enter temperature in fehrenhit : 32
Celcius =  0.0
```

11) WAP to calculate total marks and Percentage.

In [17]:
```
s1 = float(input('Enter marks of subject 1 :'))
s2 = float(input('Enter marks of subject 2 :'))
s3 = float(input('Enter marks of subject 3 :'))
s4 = float(input('Enter marks of subject 4 :'))
s5 = float(input('Enter marks of subject 5 :'))

t = s1 + s2 + s3 + s4 + s5
p = t / 5

print('Total = ', t)
print('Percentage = ', p)
```

```
Enter marks of subject 1 :56
Enter marks of subject 2 :50
Enter marks of subject 3 :45
Enter marks of subject 4 :78
Enter marks of subject 5 :96
Total =  325.0
Percentage =  65.0
```

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

In [18]:
```
import math

x1 = int(input("Enter the Marks of X1 : "))
x2 = int(input("Enter the Marks of X2 : "))
y1 = int(input("Enter the Marks of Y1 : "))
y2 = int(input("Enter the Marks of Y2 : "))

d = float(math.sqrt(math.pow(x1-x2, 2)+math.pow(y1-y2, 2)))

print('Distance = ', d)
```

```
Enter the Marks of X1 : 55
Enter the Marks of X2 : 35
Enter the Marks of Y1 : 54
Enter the Marks of Y2 : 45
Distance =  21.93171219946131
```

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 [20]:
```
s = int(input("Enter the seconds : "))

h = int(s / 3600)
m = int((s % 3600) / 60)
sec = (s % 3600) % 60

print(h, " : ", m, " : ", sec)
```

```
Enter the seconds : 10000
2  :  46  :  40
```

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

In [21]:
```
km = int(input('Enter distance in km : '))

print('meter = ', km * 1000)
print('feet = ', km * 3280.84)
print('inches = ', km * 39370.1)
print('Centimeter = ', km * 100000)
```

```
Enter distance in km : 5
meter =  5000
feet =  16404.2
inches =  196850.5
Centimeter =  500000
```

In [ ]:
```

```