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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 [12]:
```
print("(i) a-1 dwarkadham app.,\n satya sai main road,\n infornt of aalap heritage,
print("(ii) a-1 dwarkadham app.,")
print("satya sai main road,")
print("infornt of aalap heritage,")
print("kalavad road,")
print("rajkot-360005")
```

```
(i) a-1 dwarkadham app.,
 satya sai main road,
 infornt of aalap heritage,
 kalavad road,
 rajkot-360005
(ii) a-1 dwarkadham app.,
satya sai main road,
infornt of aalap heritage,
kalavad road,
rajkot-360005
```

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

In [7]:
```
a=5
b=6
print(a+b)
```

```
11
```

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

In [9]:
```
a=5;b=6
print((a+b)/2)
```

```
5.5
```

## 05) WAP to add two number entered by user.

In [14]:
```
a=int(input("enter a = "))
b=int(input("enter a = "))
c= a+b
print("sum = ",c)
```

```
enter a = 5
enter a = 5
sum =  10
```

## 06) WAP to calculate simple interest.

In [18]:
```
p=int(input("enter price = "))
r=int(input("enter rate = "))
t=int(input("enter time = "))
print((p*r*t)/100)
```

```
enter price = 5
enter rate = 5
enter time = 1
0.25
```

## 07) WAP Calculate Area and Circumfrence of Circle

In [19]:
```
import math

r=int(input("enter radius = "))
pi=math.pi
print("area = ",pi*r*r)
print("circumfrence = ",2*pi*r)
```

```
enter radius = 1
area =  3.141592653589793
circumfrence =  6.283185307179586
```

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

In [22]:
```
i=int(input("enter no. = "))
print(i," * 1 = ",i*1)
print(i," * 2 = ",i*2)
print(i," * 3 = ",i*3)
print(i," * 4 = ",i*4)
print(i," * 5 = ",i*5)
print(i," * 6 = ",i*6)
print(i," * 7 = ",i*7)
print(i," * 8 = ",i*8)
print(i," * 9 = ",i*9)
print(i," * 10 = ",i*10)
```

```
enter no. = 2
2  * 1 =  2
2  * 2 =  4
2  * 3 =  6
2  * 4 =  8
2  * 5 =  10
2  * 6 =  12
2  * 7 =  14
2  * 8 =  16
2  * 9 =  18
2  * 10 =  20
```

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

In [23]:
```
h=int(input("enter height = "))
b=int(input("enter base = "))
print(h*b*0.5)
```

```
enter height = 10
enter base = 10
50.0
```

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

In [24]:
```
d=int(input("enter degree"))
f=int(input("enter Fahrenheit"))
print("fahrenheit = ",(d * 9/5) + 32)
print("degree = ",(f - 32) * 5/9.)
```

```
enter degree0
enter Fahrenheit32
fahrenheit =  32.0
degree =  0.0
```

## 11) WAP to calculate total marks and Percentage.

In [28]:
```
m=int(input("enter mark of m = "))
p=int(input("enter mark of p = "))
c=int(input("enter mark of c = "))
marks=m+p+c
print("total mark = ",marks)
print("percentage = ",marks/3,"%")
```

```
enter mark of m = 100
enter mark of p = 100
enter mark of c = 100
total mark =  300
percentage =  100.0 %
```

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

In [32]:
```
import math

a = int(input("enter a = "))
b = int(input("enter b = "))
c = math.sqrt(pow(a,2)+pow(b,2))
print(c)
```

```
enter a = 3
enter b = 4
5.0
```

## 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 [38]:
```
import math

s = int(input("enter sec = "))
h = int(s/3600)
m = (s - (3600*h))/60
sec = (m - int(m))*60
print(int(h))
print(int(m))
print(math.ceil(sec))
```

```
enter sec = 10000
2
46
40
```

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

In [40]:
```
km = int(input("enter km = "))
print("meter = ",km*1000)
print("feet = ",km*3280.84)
print("inches = ",km*39370.08)
print("centimeter = ",km*100000)
```

```
enter km = 1
meter =  1000
feet =  3280.84
inches =  39370.08
centimeter =  100000
```

In [ ]:
```

```