Darshan UNIVERSITY

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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 [3]:
```
print("ranaKhirsara,porbandar,gujarat");
print("ranaKhirsara,");
print("porbandar,");
print("gujarat")
```

```
ranaKhirsara,porbandar,gujarat
ranaKhirsara,
porbandar,
gujarat
```

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

In [7]:
```
a=10;
b=20;
print(a+b);
```

```
30
```

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

In [1]:
```
a=10;
b=20;
print((a+b)/2);
```

```
15.0
```

05) WAP to add two number entered by user.

In [2]:
```
num1=int(input("Enter First Number :"));
num2=int(input("Enter Second Number :"));
print(num1+num2);
```

```
Enter First Number :10
Enter Second Number :30
40
```

06) WAP to calculate simple interest.

In [4]:
```
p=int(input("Enter Principle :"));
r=int(input("Enter rate :"));
n=int(input("Enter Number of Terms :"));
print("Simple intersert :",(p*r*n)/100)
```

```
Enter Principle :100
Enter rate :1
Enter Number of Terms :1
Simple intersert : 1.0
```

07) WAP Calculate Area and Circumfrence of Circle

In [7]:
```
r=float(input("Enter Radius:"));
print("Area :",(r*r)*3.14);
print("Circumfrence :",3.14*2*r);
```

```
Enter Radius:3.15
Area : 31.15665
Circumfrence : 19.782
```

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

In [10]:
```
a=int(input("Enter Number :"));
print(a,'*',1,'=',a*1,sep=' ');
print(a,'*',2,'=',a*2,sep=' ');
print(a,'*',3,'=',a*3,sep=' ');
print(a,'*',4,'=',a*4,sep=' ');
print(a,'*',5,'=',a*5,sep=' ');
print(a,'*',6,'=',a*6,sep=' ');
print(a,'*',7,'=',a*7,sep=' ');
print(a,'*',8,'=',a*8,sep=' ');
print(a,'*',9,'=',a*9,sep=' ');
print(a,'*',10,'=',a*10,sep=' ');
```

```
Enter Number :10
10 * 1 = 10
10 * 2 = 20
10 * 3 = 30
10 * 4 = 40
10 * 5 = 50
10 * 6 = 60
10 * 7 = 70
10 * 8 = 80
10 * 9 = 90
10 * 10 = 100
```

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

In [11]:
```
h=float(input("Enter Height :"));
b=float(input("Enter Base :"));
print("area is",h*b*0.5);
```

```
Enter Height :5
Enter Base :6
area is 15.0
```

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

In [13]:
```
cel=int(input("Enter temp in cel :"));
feh=(cel*1.8)+32;
print(feh);

feh=int(input("Enter temp in feh :"));
cel=(feh-32)/1.8;
print(cel);
```

```
Enter temp in cel :54
129.2
Enter temp in feh :129
53.888888888888886
```

11) WAP to calculate total marks and Percentage.

In [15]:
```
sub1=float(input("Enter Marks of subject1:"));
sub2=float(input("Enter Marks of subject2:"));
sub3=float(input("Enter Marks of subject3:"));
sub4=float(input("Enter Marks of subject4:"));
sub5=float(input("Enter Marks of subject5:"));
total=sub1+sub2+sub3+sub4+sub5;
per=total/5;
print("Total Marks",total,"and Percentage",per);
```

```
Enter Marks of subject1:50
Enter Marks of subject2:60
Enter Marks of subject3:64
Enter Marks of subject4:92
Enter Marks of subject5:69
Total Marks 335.0 and Percentage 67.0
```

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

In [16]:
```
x1=int(input("Enter x1:"));
y1=int(input("Enter y1:"));
x2=int(input("Enter x2:"));
y2=int(input("Enter y2:"));
print("distance :",(((x2-x1)**2)+((y2-y1)**2))**0.5);
```

```
Enter x1:1
Enter y1:2
Enter x2:3
Enter y2:4
distance : 2.8284271247461903
```

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]:
```

sec=int(input("Input seconds: "));
h = int(sec/3600);
m = int(sec -(3600*h))/60;
s = int(sec -(3600*h)-(m*60));
print(h,m,s,sep=':');
```

```
Input seconds: 10000
2:46.666666666666664:0
```

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

In [22]:
```
km=int(input("Enter distance in km:"));
m=km*1000;
f=m*3.28084;
i=f*12;
c=i*2.54;
print("kilometer :",km);
print("meter :",m);
print("feet :",f);
print("inch :",i)
```

```
Enter distance in km:26
kilometer : 26
meter : 26000
feet : 85301.84
inch : 1023622.08
```

In [ ]:
```

```