Darshan UNIVERSITY

योगः कर्मसु कौशलम्

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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("laxmanzula society,150 ft ring road,rajkot");

print("laxmanzula society" ,end=",");
print("150 ft ring road" ,end=",");
print("rajkot");
```

```
laxmanzula society,150 ft ring road,rajkot
laxmanzula society,150 ft ring road,rajkot
```

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

In [3]:
```
a=3;
b=5;
sum=a+b;
print("sum:",sum);
```

```
sum: 8
```

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

In [4]:
```
a=10;
b=13;
avg=a=b/2;
print("avg:",avg);
```

```
avg: 6.5
```

05) WAP to add two number entered by user.

In [1]:
```
a=int(input("emter no1:"));
b=int(input("emter no2:"));
sum=a+b;
print("sum:",sum);
```

```
emter no1:4
emter no2:5
sum: 9
```

06) WAP to calculate simple interest.

In [2]:
```
p=int(input("enter principal amount:"));
t=int(input("enter time:"));
r=int(input("enter rate of intrest:"));
i=p*t*r;
print("interest:",i);
```

```
enter principal amount:8
enter time:9
enter rate of intrest:30
interest: 2160
```

07) WAP Calculate Area and Circumfrence of Circle

In [1]:
```
r=int(input('enter redius:'));
area=3.14*r*r;
circumfrence=2*3.14*r;
print('area:',area);
print("circumfrence:",circumfrence);
```

```
area: 50.24
circumfrence: 25.12
```

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

In [5]:
```
a=int(input('enter redius:'));
print("table of ",a);
print(a ,"*","1","=",a*1);
print(a ,"*","2","=",a*2);
print(a ,"*","3","=",a*3);
print(a ,"*","4","=",a*4);
print(a ,"*","5","=",a*5);
print(a ,"*","6","=",a*6);
print(a ,"*","7","=",a*7);
print(a ,"*","8","=",a*8);
print(a ,"*","9","=",a*9);
print(a ,"*","10","=",a*10);
```

```
enter redius:5
table of  5
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
```

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

In [3]:
```
h=int(input("enter h:"))
b=int(input("enter b:"))
print('area of triangle is:',h*b*0.5)
```

```
enter h:6
enter b:8
area of triangle is: 24.0
```

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

In [4]:
```
#fahrenhit to celsius
F=int(input("enter fahrenhit: "))
C=(F-32)*(5/9);
print("in degree celcius:",C)

#celcius to fahrenhit
C=int(input("enter celcius:"))
F=(1.8*C)+32
print("in Fahrenhit:",F)
```

```
enter fahrenhit: 6
in degree celcius: -14.444444444444445
enter celcius:4
in Fahrenhit: 39.2
```

11) WAP to calculate total marks and Percentage.

In [2]:
```
sub1=int(input("enter sub1 marks:"))
sub2=int(input("enter sub2 marks:"))
sub3=int(input("enter sub3 marks:"))
sub4=int(input("enter sub4 marks:"))
sub5=int(input("enter sub5 marks:"))
total=sub1+sub2+sub3+sub4+sub5
#total mark is 350 (per subject 70 marks)
per=(total/350)*100
print("total marks:",total)
print("percentage:",per,"%")
```

```
enter sub1 marks:66
enter sub2 marks:58
enter sub3 marks:55
enter sub4 marks:61
enter sub5 marks:70
total marks: 310
percentage: 88.57142857142857 %
```

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

In [6]:
```
x1=int(input("enter x1:"))
x2=int(input("enter x2:"))
y1=int(input("enter y1:"))
y2=int(input("enter y2:"))
distance=((x2-x1)**2+(y2-y1)**2)**0.5
print("distance:",distance)
```

```
enter x1:6
enter x2:3
enter y1:5
enter y2:2
distance: 4.242640687119285
```

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 [13]:
```
sec=int(input("enter seconds:"))
hours=sec//3600
minutes=(sec%3600)//60
seconds=(sec%3600)%60
print(hours,minutes,seconds,sep=":")
```

```
enter seconds:10000
2:46:40
```

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

In [2]:
```
km=int(input("give distance in kilometer"))
meter=km*100
cm=km*100000
ft=km*3280.84
Inch=km*39370.1
print("meter:",meter)
print("Feet:",ft)
print("Inch",Inch)
print("Centimeter:",cm)
```

```
give distance in kilometer5
meter: 500
Feet: 16404.2
Inch 196850.5
Centimeter: 500000
```

In [ ]:
```

```