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Python Programming - 2101CS405

Lab - 1

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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 [10]:
```
print("sahkar socity street no 2 rajkot",end=",");
print("sahkar socity");
print("street no 2",end=",");
print("rajkot");
```

```
sahkar socity street no 2 rajkot,sahkar socity
street no 2,rajkot
```

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

In [6]:
```
a=int(input("Enter a first number : "));
b=int(input("Enter a second number : "));
print(f"Addition is {a+b}")
```

```
Enter a first number : 19
Enter a second number : 1
Addition is 20
```

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

In [8]:
```
a=int(input("Enter a first number : "));
b=int(input("Enter a second number : "));
print(f"average is {(a+b)/2}")
```

```
Enter a first number : 10
Enter a second number : 20
average is 15.0
```

05) WAP to add two number entered by user.

In [ ]:
```
a=int(input("Enter a first number : "));
b=int(input("Enter a second number : "));
print(f"Addition is {a+b}")
```

06) WAP to calculate simple interest.

In [14]:
```
p=float(input("Enter a p : "));
r=float(input("Enter a r : "));
n=float(input("Enter a n : "));
print(f"simple interest is ",(p*r*n)/100)
```

```
Enter a p : 10
Enter a r : 20
Enter a n : 30
simple interest is  60.0
```

07) WAP Calculate Area and Circumfrence of Circle

In [16]:
```
import math
r=float(input("enter radius : "))
print(f"Area of circle is {math.pi*r*r}")
```

```
enter radius : 1
Area of circle is 3.141592653589793
```

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

In [23]:
```
num=int(input("enter table number : "))
print(f"{num} X 1 = {num*1}")
print(f"{num} X 2 = {(num*2)}")
print(f"{num} X 3 = {num*3}")
print(f"{num} X 4 = {num*4}")
print(f"{num} X 5 = {num*5}")
print(f"{num} X 6 = {num*6}")
print(f"{num} X 7 = {num*7}")
print(f"{num} X 8 = {num*8}")
print(f"{num} X 9 = {num*9}")
print(f"{num} X 10 = {num*10}")
```

```
enter table number : 5
5 X 1 = 5
5 X 2 = 10
num X 3 = 15
num X 4 = 20
num X 5 = 25
num X 6 = 30
num X 7 = 35
num X 8 = 40
num X 9 = 45
num X 10 = 50
```

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

In [28]:
```
h=float(input("enter h number : "))
b=float(input("enter b number : "))
print(f"Area of triangle is {h*b*0.5}")
```

```
enter h number : 10
enter b number : 20
Area of triangle is 100.0
```

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

In [30]:
```
# °F = (9/5 × °C) + 32.7
cel=float(input("enter celecius : "))
print(f"ferenheit is {((9/5)*cel)+32.5}")
# C = 5/9(F-32)
fer=float(input("enter ferenheit : "))
print(f"celcius is {((5/9)*(fer-32))}")
```

```
enter celecius : 1
ferenheit is 34.3
enter ferenheit : 34.3
celcius is 1.2777777777777763
```

11) WAP to calculate total marks and Percentage.

In [34]:
```
maths=int(input("enter maths marks :"))
sci=int(input("enter science marks :"))
che=int(input("enter chemistry marks :"))
phy=int(input("enter physics marks :"))
print(f"total marks is {(maths+sci+che+phy)}")
print(f"precentage is {(maths+sci+che+phy)/4}")
```

```
enter maths marks :10
enter science marks :10
enter chemistry marks :10
enter physics marks :10
total marks is 40
precentage is 10.0
```

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

In [35]:
```
import math
a=int(input("enter a :"))
b=int(input("enter b :"))
print(f"distance between two points is {math.sqrt((a*a)+(b*b))}")
```

```
enter a :3
enter b :4
distance between two points is 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 [40]:
```
second=int(input("Enter Second :"))
hour=(int)(second/3600)
minute=(int)((second-hour*3600)/60)
second=(int)((second)-(hour*3600)-minute*60)
print(f"{hour}:{minute}:{second}")
```

```
Enter Second :10000
2:46:40
```

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

In [41]:
```
distence=float(input("Enter distence in kilometer"))
print(f"Distence in meter is {distence*1000}")
print(f"Distence in feet is {distence*3281}")
print(f"Distence in inch is {distence*39370.1}")
print(f"Distence in centimeter is {distence*100000}")
```

```
Enter distence in kilometer10
Distence in meter is 10000.0
Distence in feet is 32810.0
Distence in inch is 393701.0
Distence in centimeter is 1000000.0
```

In [ ]: