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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 [2]:

```
print("new Radheshyam society street no.6 Rajkot")
print("New RadheShyam Society Street No.6 Behind \n Brahmani hall \n kothariya main Rajkot")
```

```
new Radheshyam society street no.6 Rajkot
New RadheShyam Society Street No.6 Behind
 Brahmani hall
 kothariya main Rajkot
```

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

In [3]:

```
a=10
b=20
c=1+b
print(c)
```

```
21
```

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

In [4]:

```
a=10
b=20
c=(a+b)/2
print(c)
```

```
15.0
```

05) WAP to add two number entered by user.

In [5]:

```
n1=int(input("Enter 1st Number:"))
n2=int(input("Enter 2nd Number:"))

ans=n1+n2
```

06) WAP to calculate simple interest.

In [1]:

```
p=float(input("The principal is :"))
t=float(input("The time period is :"))
r=float(input("The rate of interest is :"))

si = (p * t * r)/100

print("The Simple Interest is",si)
```

07) WAP Calculate Area and Circumfrence of Circle

In [ ]:

```
r = int(input("Enter Radius : "))
print(f"Area Of Circle Having Radius {r} Is : ", (3.14*r*r))
print(f"Circumfrence Of Circle Having Radius {r} Is : ", (2*3.14*r))
```

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

In [ ]:

```
n= int(input("Enter Your 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)
```

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

In [ ]:

```
H=int(input("Enter Height :"))
B=int(input("Enter Base :"))

t=(H*B)/2

print("Your Ans is :",t)
```

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

In [ ]:

```
fernhit = int(input("Enter Fernhit Value :"))

c = (fernhit-32)*5/9
print("Your Answer is :",c)
```

11) WAP to calculate total marks and Percentage.

In [ ]:

```
m1=int(input("Enter 1st Subject Mark"))
m2=int(input("Enter 2st Subject Mark"))
m3=int(input("Enter 3st Subject Mark"))
m4=int(input("Enter 4st Subject Mark"))
m5=int(input("Enter 5st Subject Mark"))

total=m1+m2+m3+m4+m5
per=total/5

print("your total is :{total}")
```

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

In [ ]:

```
x1=int(input("Enter x1 cordinate:"))
x2=int(input("Enter x2 cordinate:"))
y1=int(input("Enter y1 cordinate:"))
y1=int(input("Enter y1 cordinate:"))

distance=(((x1-x2)**2)+((y1-y2)**2)**0.5)
print(f"Distance Between {x1},{x2} And {y1},{y2} Is",
      distance)
```

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 [ ]:

```
s = int(input("Enter Seconds : "))
h = s//3600
m = (s % 3600)//60
s = (s % 3600) % 60
print(f"{h}:{m}:{s}")
```

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

In [ ]:

```
k = int(input("Enter Distance In Kilometer : "))
m = k*1000
f = k*3281
i = k*39370
c = k*100000
print(f"{k} Kilometer Is {m} Meter {f} Foot {i} Inch {c} Centimeters")
```