Darshan UNIVERSITY

Python Programming - 2304CS401

Lab - 1

Basic programs to understand the working of python.

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("Jamngar")
        print("361001")
        print("Jamnagar \n Gujrat")
```

```
Jamngar
361001
Jamnagar
 Gujrat
```

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

```
In [3]: a=10
        b=20
        print(a+b)
```

```
30
```

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

```
In [5]: a=10
        b=20
        print((a+b)/2)
```

15.0

05) WAP to add two number entered by user.

```
In [2]: a=int(input("Enter a:"))
        b=int(input("Enter b:"))
        print(a+b)
```

24

06) Write a program to calculate the area of a circle

```
In [3]: pi=3.14
        r=int(input("Enter Radius :"))
        area=pi*r*r
        print("Area :",area)
```

Area : 314.0

7) Write a program to take 4 subjects' marks from the user and calculate total marks & Percentage.

```
In [4]: dm=int(input("Enter Marks of DM"))
        ds=int(input("Enter Marks of DS"))
        oopj=int(input("Enter Marks of OOPJ"))
        dbms=int(input("Enter Marks of DBMS"))
        total=dm+ds+oopj+dbms
        avg=total/4
        print(total)
        print(avg)
```

373
93.25

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

```
In [5]: h=int(input("Enter h:"))
        b=int(input("Enter B"))
        a=h*b*0.5
        print(a)
```

375.0

9. Write a program to calculate the area of a rectangle.

```
In [8]: width = int(input("Enter Width :"))
        height = int(input("Enter Height :"))
        area = width * height
        print(f"Area Is :{area}")
```

```
Area Is :500
```

10) WAP to calculate simple interest.

```
In [3]: p=int(input("Enter P:"))
        r=int(input("Enter r:"))
        n=int(input("Enter n:"))
        intrest=(p*r*n)/100
        print(intrest)
```

```
2.0
```

11) Write a program to print a multiplication table of a given number

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

```
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
```

12) Write a program to convert Celsius to Fahrenheit and vice versa.(Hint- F ((9*C/5)+32)

In [10]:
```python
c=int(input("Enter C:"))
f=c*(9/5)+32
print("Ferenheit :",f)
```

Ferenheit : 59.0

In [12]:
```python
F=int(input("Enter F:"))
c=(f-32)*(5/9)
print("C  :",c)
```

C : 15.0