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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 [5]: print("Angikar Appartment Flat no.103, \nNew Gandhi soc.9 by 10 cor  
print("Angikar Appartment Flat no.103,")  
print("New Gandhi soc.9 by 10 corner,")  
print("Nana mova main road,")  
print("Rajkot")
```

Angikar Appartment Flat no.103,
New Gandhi soc.9 by 10 corner,
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Rajkot

Angikar Appartment Flat no.103,
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03) WAP to print addition of 2 numbers (without input function)

```
In [17]: a = 5  
b = 10  
  
c = a+b  
  
print("Addition :",c)
```

Addition : 15

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

```
In [8]: a = 10  
b = 5  
  
c = (a+b)/2  
  
print("Average :",c)
```

Average : 7.5

05) WAP to add two number entered by user.

```
In [2]: a = int(input("Enter First Number :"))  
b = int(input("Enter Second Number :"))  
  
print("Addition :",a+b)
```

Enter First Number :3
Enter Second Number :6
Addition : 9

06) WAP to calculate simple interest.

```
In [3]: p = int(input("Enter Principal Amount : "))
r = int(input("Enter Rate Per Annum : "))
n = int(input("Enter Time : "))

print("Simple Intrest : ", (p*r*n)/100)
```

Enter Principal Amount : 20
Enter Rate Per Annum : 30
Enter Time : 10
Simple Intrest : 60.0

07) WAP Calculate Area and Circumfrence of Circle

```
In [4]: 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))
```

Enter Radius : 6
Area Of Circle Having Radius 6 Is : 113.03999999999999
Circumfrence Of Circle Having Radius 6 Is : 37.68

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

```
In [5]: n = int(input("Enter A 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)
```

Enter A Number : 7
7 * 1 = 7
7 * 2 = 14
7 * 3 = 21
7 * 4 = 28
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
7 * 10 = 70

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

```
In [7]: h = int(input("Enter Height : "))
b = int(input("Enter Breath : "))

print("Area Of Tringle Is : ", (h*b*0.5))
```

```
Enter Height : 5
Enter Breath : 3
Area Of Tringle Is : 7.5
```

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

```
In [9]: d = int(input("Enter Degree : "))
f = (d*9/5)+32
print(f"{d}°C = ", f, "°F")

f = int(input("Enter Fahrenhit : "))
c = (f-32)*5/9
print(f"{f}°F = ", c, "°C")
```

```
Enter Degree : 40
40°C = 104.0 °F
Enter Fahrenhit : 104
104°F = 40.0 °C
```

11) WAP to calculate total marks and Percentage.

```
In [11]: m1 = int(input("Enter Physics's Mark : "))
m2 = int(input("Enter Chemistry's Mark : "))
m3 = int(input("Enter Maths's Mark : "))
m4 = int(input("Enter English's Mark : "))

print(f"Total Of {m1} , {m2} , {m3} and {m4} Is ", (m1+m2+m3+m4),
      " And Percentage Is : ", (m1+m2+m3+m4)/4)
```

```
Enter Physics's Mark : 73
Enter Chemistry's Mark : 92
Enter Maths's Mark : 85
Enter English's Mark : 95
Total Of 73 , 92 , 85 and 95 Is 345 And Percentage Is : 86.25
```

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

```
In [12]: x1 = int(input("Enter X1 Coordinate : "))
x2 = int(input("Enter X2 Coordinate : "))
y1 = int(input("Enter y1 Coordinate : "))
y2 = int(input("Enter y2 Coordinate : "))

distance = (((x1-x2)**2)+((y1-y1)**2)**0.5)

print(f"Distance Between {x1},{x2} And {y1},{y2} Is",distance)
```

```
Enter X1 Coordinate : 4
Enter X2 Coordinate : 2
Enter y1 Coordinate : 6
Enter y2 Coordinate : 5
Distance Between 4,2 And 6,5 Is 4.0
```

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 [15]: s = int(input("Enter Seconds : "))
h = s//3600
m = (s % 3600)//60
s = (s % 3600) % 60

print(f"{h}:{m}:{s}")
```

```
Enter Seconds : 10000
2:46:40
```

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

```
In [16]: 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} Centimeter")
```

```
Enter Distance In Kilometer : 10
10 Kilometer Is 10000 Meter 32810 Foot 393700 Inch 1000000 Centimeters
```

In []:

