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SECTION: **BSCS Sec** - A

Roll No: **31**

SUBJECT: **ICS (301)**

LAB # 01

# **OBJECT 1**:

Write Python code to print area of circle

## **SOURCE CODE:**

r = int(input("Enter Radius "))

a = 3.14 \* r \* r

print("Area of circle is ", a)

## **OUTPUT:**



# **OBJECT 2**:

Write Python code to print area of rectangle

## **SOURCE CODE:**

l = int(input("Enter Length "))

w = int(input("Enter Width "))

a = l \* w

print("Area of Rectangle is ", a)

## **OUTPUT:**



# **OBJECT 3**:

Write Python code to accept input from user and print its square and cube.

## **SOURCE CODE:**

n = int(input("Enter Number "))

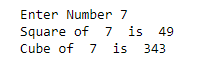
s = l \* l

c = l \* l \* l

print("Square of ", n ," is " , s)

print("Cube of ", n ," is " , c)

## **OUTPUT:**



# **OBJECT 4**:

Write Python Code to calculate the following:

1. Average
2. Mid-Point
3. Quadratic Formula
4. Slope = y2-y1 / x2-x1

## **SOURCE CODE:**

1. a = int(input("Enter Number 1: "))

b = int(input("Enter Number 2: "))

c = int(input("Enter Number 3: "))

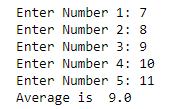
d = int(input("Enter Number 4: "))

e = int(input("Enter Number 5: "))

avg = (a + b + c + d + e) / 5

print("Average is ", avg)

## **OUTPUT:**



## **SOURCE CODE:**

1. a = int(input("Enter Number 1: "))

b = int(input("Enter Number 2: "))

mid = (a + b) / 2

print("Mid-Point is ", mid)

## **OUTPUT:**



## **SOURCE CODE:**

1. import math

a = int(input("Enter Value of a: "))

b = int(input("Enter Value of b: "))

c = int(input("Enter Value of c: "))

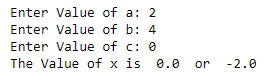
r = math.sqrt((b \* b)-(4 \* a \* c))

bp = (- b + r) / (2 \* a)

bn = (- b - r) / (2 \* a)

print("The Value of x is ", bp," or ", bn)

## **OUTPUT:**



## **SOURCE CODE:**

1. y2 = int(input("Enter Value of y2: "))

y1 = int(input("Enter Value of y1: "))

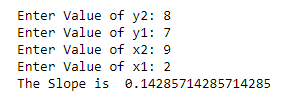
x2 = int(input("Enter Value of x2: "))

x1 = int(input("Enter Value of x1: "))

s = (y2 - y1) / (x2 - x1)

print("The Slope is ", s)

## **OUTPUT:**



# **OBJECT 5**:

Write Python code to calculate following terms:

1. Area of Parallelogram
2. Circumference of Circle

## **SOURCE CODE:**

1. b = int(input("Enter Base Value: "))

h = int(input("Enter Height Value: "))

a = b \* h

print("Area of Parallelogram is ", a)

## **OUTPUT:**



## **SOURCE CODE:**

1. r = int(input("Enter Radius: "))

c = 2 \* 3.145 \* r

print("Circumference of Circle is ", c)

## **OUTPUT:**



# **OBJECT 6**:

Write Python code to find the perimeter of the bedroom given the diagram:

## **SOURCE CODE:**

l = int(input("Enter Length: "))

b = int(input("Enter Breadth: "))

p = 2 \* (l + b)

print("Perimeter is ", p)

## **OUTPUT:**

