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# THILINI SANDUMINI DIAS

## **ASSIGNMENT 03**

## **DATE: 18TH SEPTEMBER 2024**

#### **EXERCISE 01**

```
In [14]: X =lambda num1,num2: num1*num2
X(2,3)
Out[14]: 6
```

### EXERCISE 02

The area of the given circle is: 314.1592653589793

#### **EXERCISE 03**

```
In [16]: def addition(n1,n2):
             return n1 + n2
         def subtraction(n1,n2):
             return n1 - n2
         def multiplication(n1,n2):
             return n1 * n2
         def division(n1,n2):
             return n1 / n2
         print("select operations")
         print("1.Addition\n"\
               "2.Subtraction\n"\
               "3.Multiplication\n"\
               "4.Division\n")
         operation = int(input("Enter choice of operation 1/2/3/4: "))
         n1 = float(input("Enter the First Number: "))
         n2 = float(input("Enter the Second Number: "))
```

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```
if operation== 1: print(n1,"+",n2,"=",addition(n1,n2))
         elif operation== 2: print(n1,"-",n2,"=",subtraction(n1,n2))
         elif operation== 3: print(n1,"*",n2,"=",multiplication(n1,n2))
         elif operation== 4: print(n1,"/",n2,"=",division(n1,n2))
         else: print("Invalid Input")
        select operations
        1.Addition
        2.Subtraction
        3.Multiplication
        4.Division
        5.0 * 3.0 = 15.0
In [17]: class Rectangle():
             def __init__(self, l, w):
                 self.length = 1
                 self.width = w
             def rectangle_area(self):
                 return self.length*self.width
         a=int(input("Enter lenghth of Rectangle: "))
         b=int(input("Enter width of Rectangle: "))
         obj=Rectangle(a,b)
         print("rectangle_area:",obj)
         print()
```

rectangle\_area: <\_\_main\_\_.Rectangle object at 0x000001904B380F50>

#### **EXERCISE 05**

```
In [18]: class Shape(object):
    def __init__(self):
        pass
    def area(self):
        return 0

class Square(Shape):
    def __init__(self,1):
        Shape. __init__(self)
        self.length = 1

    def area(self):
        return self.length*self.length

aSquare = Square(3)
```

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```
print (aSquare.area())

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In []:
```