* lab-12 *

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(1) wap to create class named student and initialize attributes like enrollment-no, student-name, gender, department while creating an object.

```
class student:
    def __init__(self, enr, name, gender, dept):
        self.enr = enr
        self.name = name
        self.gender = gender
        self.dept = dept
    def printDetails(self):
        print(self.enr)
        print(self.name)
        print(self.gender)
        print(self.dept)
s1 = student("123", "abc", "male", "computer")
s1.printdetails()
```

output:

```
123
abc
male
computer
```

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(2) wap to create a class named shape. create 3 subclasses of shape class named Triangle, circle & square with contain calculator & display area method. wap to display all 3 shape area.

```
import math
class shape:
    def printdef(self):
        print("calculate area")

class circle(shape):
    def __init__(self,radius"):
        self.radius = radius
    def calculator area(self):
        return math.pi * self.radius * self.
                                        radius
    def display area(self):
        print(self.calculate area())

circle = circle(7)
circle.displayarea()

class triangle(shape):
    def __init__(self,b,h):
        self.b = b
        self.h = h
    def calculator.area(self):
        return self.b * self.h
    def display area(self):
        print(self.calculator area())
```

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```
Triangle = Triangle(7.4)
Triangle = displayarea()

class square(shape):
    def __init__(self, 7):
    def self l=l
    def calculate area(self):
        return self = self.d
    def display area(self) =
            print(self.calculaterarea())

Square = S.square(7)
Square = displayarea()
```

output:

```
163.9380400
28
41
```

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(3) create a class named bank-account with ID, username, email, A-type and A-Balance data members also create a method and details() display A-details().

```
class Bank_account:
    def __init__(self):
        self.A-no = 0
        self.username = None
        self.email = none
        self. A-Type = none
        self. A-balance = 0.0

    def accountdetail(self):
        self.account No = (input(" enter A-no:")
        self.username = input(" enter u-name")
        self. email = input = input(" enter email")
        self. A-Type = input(" enter A-Type")
        self. A-Balance = input(" enter A-Balance")

        Print(" username = user-name")
        print(" email :("self.email"))
        print(" A-Type :("self. A-Type"))
        print(" A-Balance :(" self. A-Balance"))

account = Bank account()
account. get account Detail()
account. display account Detail()
```

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output :

enter A-name = 101

enter U-name = abc

enter email = abc@gmail.com

enter a-type = current

enter a-Balance = 25000

account Details :

A-no = 101

y-name = abc

email = abc@gmail.com

A-Type = current

a-Balance = 25000.

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