Hello Everyone

OOP Presentation

Course Title:

Object Oriented Programming (OOP)

Course Code

CSE-214

Presentation Topic:

Encapsulation

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Encapsulation

- Encapsulation is the process of hiding the implementation details of an object from the outside world, and only exposing the necessary information to interact with the object.
- In Java, encapsulation is achieved by declaring the instance variables of a class as private, and providing public methods (getters and setters) to access and modify those variables.
- Encapsulation helps to maintain the integrity of the data stored in an object and prevents external code from directly modifying the object's internal state.
- It also allows for greater flexibility in modifying the implementation of a class, since the external code that interacts with the object only depends on its public interface, and not on its internal implementation.

Encapsulation Code

```
Public class Persaon {
    private String name;
    private int age;
    public String getName () {
        return name;
        }
    Public void setName (String
name)  {
        this.name = name;
        }
}
```

```
Public class EncapTest {
    public static void main(String[] args) {
        person p1 = new Person();
        p1.setName ("Sadib“);
        System.out.println (p1.getName());

    }
}
```


thank
you!