

Syllabus : Object Oriented Programming in java

1. Class
2. Object
3. Member data
4. Member Function
5. Access specifier
6. Constructor
7. Default Constructor
8. Parameterized constructor
9. Encapsulation
10. Inheritance
11. This
12. Super
13. Static variable
14. Static block
15. Static method
16. Final class
17. Final variable
18. Final method
19. Polymorphism
20. Variable argument (...)

21. Compile Time Polymorphism(Method Overloading)

22. Run Time Polymorphism(Method Overriding)

23. Abstraction

24. Interface

25. Multiple Inheritance Using Interface

Q1. Explain class in java programming?

Ans:

Purpose: It is used to create a user defined data type in java

Definition:

Class is the collection of member data and member function

A class is a set of rules

A class is an blue print of an object

Q2. Explain Object?

Ans: Object is an variable / instance of a class

If we want to access instance variable / instance method of class then we should use object

How to create an object of the class

```
ClassName obj=new ClassName();
```

```
String s1=new String();
```

```
Scanner s2=new Scanner(System.in);
```

```
Student st=new Student();
```

Access Member data using Object

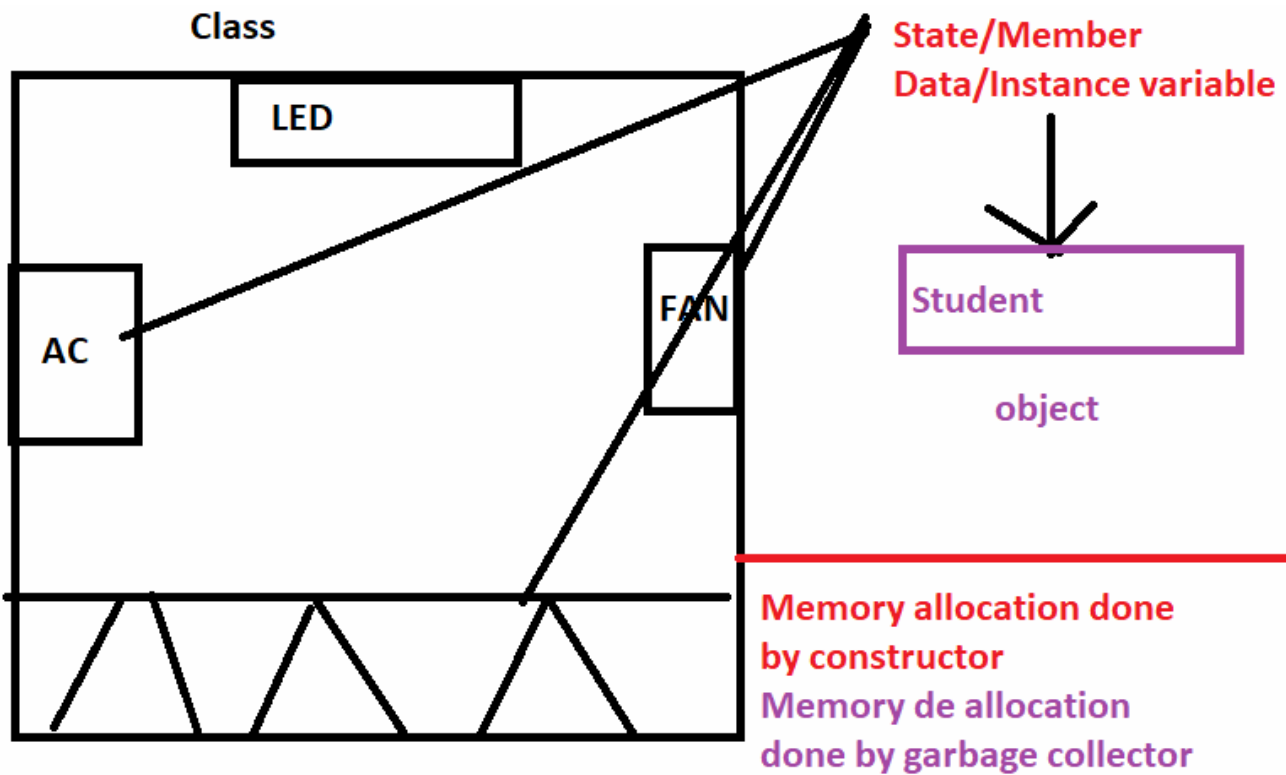
```
objectName.memberDataName;
```

Access Member function using Object

```
objectName.memberFunctionName();
```

Note:

1. Method name should be written in cameCase
2. MethodName startWith Verb



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```
class Rectangle{  
    psvm(){  
        //declare 4 variable | int l,b;  
        //input  
        output  
        //operation  
        //print result  
    }  
}
```

```
class Rectangle{  
    int l;  
    int b; | Member data/state/instance variable  
    void acceptData(){}  
    void showData(){}  
    void getArea(){}  
    void getPira(){}  
    psvm(){  
        Rectangle r=new Rectangle();  
        r.l;  
        r.b;  
        r.acceptData();  
        r.showData();  
        r.getArea();  
        r.getPira();  
    }  
}
```

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