Object Oriented Programming

What is OOPs

Classes & Objects

Access Specifiers

Constructor & this pointer

Static keyword

Packages

Final Keyword

Practice Problems on OOPS

Encapsulation

Polymorphism

Inheritance & its types

Abstraction & Inheritance



OOPs is a programming technique which mainly revolve around real life objects

fan Iaptop/mobile Something which
Really Exist
in world

Classes & Objects

Class

It is user defined data type, which contains data members (variables)

& methods (functions).

Syntax:

class ClassNamy

3

11 data members

11 methods

class Person

int age

String name

void info()

// age, name

7

with Goodnotes

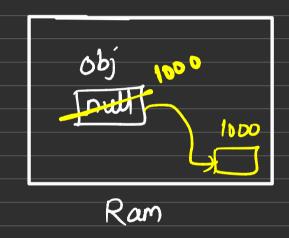
4

- Compilur class Person ___ dataType 3 int age String name void info() data Type // age, name Elamber of

Object

It is a instance of the class – which tells what kind of operation we can perform on the class.

(lass Name obj Nm; obj Nm = new (lass Name()



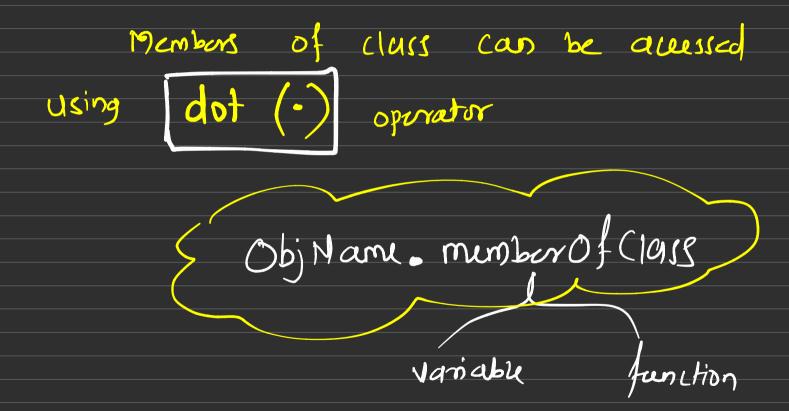
Made with Goodnote

```
class Person{ no usages
    // data members
    int age; 1 usage
    String name; 1 usage
    // member function
    public void info(){ no usages
        System.out.println("Age of the person is: " + age);
        System.out.println("Name of the person is: " + name);
```

```
Person yash = new Person()

yash.age
```

How to access members of the class



Access Specifiers

default

Mainly decides the scope of accessibility of members of the class

private

public Protected

- default:

When no access specifier mentioned

- Outside of class but in Samu package

- public:

can be accessed anywhere outside the class of outside the parkeye

- private cannot be accessed outside of class

- protected Same package but through inhabitance

