10-06-2024
15:30-16:30 M Constitution of Copperation of Copperation of the C \* Members \* Methods CLASS! - Et is a collection of similar objects OBJECT: It is a callection of members & methods. an instance of a class is called objects. VARIOUS PRINCIPLES OF OBJECTS [OR] OBJECT ORIENTED PROGRAMMINGS -> class her graf aliance and discolar mate violation to the -> object in in in in > Encapsulation: - Text hide; Members & Methods are bounced to protect from unathorized wers [ private] -> Abstraction: - class is an abstract datatype !! -> Polymorphism: -- More than 1 operation

\* operator overloading of Method Overloading the North of -> Enheritance: 1 class acquire proporties of another class

-> Dynamic Binding: - Determining the specific implementation of a method at runtime.

-> Message Communication; Sending an object i.e Sending a missage from 1 thread to another thread 11-06-2024

DIFFERENCE BETWEEN PROCEDURAL ORIENTED PROGRAMMING LPOP'S] & OBJECT ORIENTED PROGRAMMING [OOP'S] =>

OOP's

> We concentrate on procedures i.e on Functions"

-> We concentrate on objects lie on "Data"

-> Data moves freely wound the system

-> Data is bounded Letween members & methods

-> Not suitable for real world application

-> Suitable for road world application

> Ex:- c; collaboration of Ex:- c++, Java, Python

PRINCIPLES OF OOP'S House 2. object

2. object

3. Encapsulation

4. Austraction

January Kinteres : Bathanianany the facility in the facility in the

5. Polymorphism ... 6. Inhoritance

7. Dynamic Binding 8. Mersage Communication

1. CLASS: - It is a collection of similar objects.

A class is a factory which produces different objects of similar type. Assessed of annual and

2. OBJECT: An entity of a class [OR] instance of a class. In object is a collection of properties i.e. members of methods.

3. ENCAPSULATION: - It is a mechanism that the members & the methods bounded together to protect from unathorized Typiness .: " 17 1 274 T. All Advant min miles

It is a dechnical term of hidling:

4. ABSTRACTION: - Oceating new data-type through encapsulation is called Alextraction.

The datatype which is created by abstraction is called "Abstracted data-type" [ADI].

Ex: - Class

5. POLYMORPHISM:

Porx = Many 1 More

MORPHISM = Action
POLYMORPHISM

" PARTE ON CHANGE RUNTIME BINDING COMPILE TIME / STATIC BINDING 1. FUNCTION OVERLOADING DYNAMIC BINDING 2. OPERATOR OVERLOADING WALL TITLE

6. INHERITANCE: - It is a process by which I class object acquires the proporties of another class object.

JAVA -> ISLAND IN INDONESIA

JAVA: The language was initially called "Oak " after an oak true that stood outside Gosling's office. Later the project went by the name Green & was finally renamed "Java", from Java Coffee", a type of coffee from Indonesia.

JAVA Was invented by JAMES GOSLING in 1995 While he was working at SUN MICROSYSTEMS.

1995! James Gosling OAK It is trenamed in 2000 as Java

The company who developed JAVA is "Sun Micro Systems". "DRACLE" acquire "SUN MICROSYSTEMS" in 2010 SO, mow JAVA
is owned by "DRACLE".

> JDK - JAVA DEVELOPMENT KIT JDK -> TOOLS
>
> JAVAR
>
> JRE -> JAVA RUNTIME ERROR

JSE > JAVA STANDARD EDITION

JSE = JDK + JRE J2EE -> JAVA ENTERPRISE EDITION, EDITIONS OF JAVA =>

J 2 EE - JAVA ENTERPRISE EDITION

JAKARTA EE - ORACLE [APPLICATION SERVER]

JME - JAVA MOBILE [OR] MICRO EDITION

The oracle Java, Mivro Edition [Java ME] software Development kit [SDK] provides device emulation, a standalone development environment & a set of Utilities for Trapial Sevelopment of Java ME applications.