

Assignment - 01

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Batch - C

Assignment: 01

1) Enplain Features of Java.

Ans Features of Javo are as follows:—

1.) Object Oriented

2.) Simple

3.) Secured

4.) Plafeform Independent

5.) Robust

6.) Portable

7.) Architecture Neural

8.) Dynamic

9.) Intrepreted

10.) High Performance

11.) Multithreaded

12.) Distributed.

2)8. Discuss class, object and Method in Java (with enample)

Class: A Class describes the content of the aptions objects that belongs to it. It describes an aggregate of data fields and defines the operations.

Method:

and

A is an action which an object is able to perform sending message to an object means asking the object to enecute or invoke of it methods.

An object is an element of a class, object Object ? have the behaviors of their class. The object is the actual component of program while the class specifies how instances are created and how they behave. enample :public class Puppy (String name) {

public chose Puppy (String name) {

System. out. println ("Passed Name is: "trunk public static voich main (string [] args) Puppy mypuppy & new Puppy ("tommy"). Passed Nome is: tomy, 3.) Explain inheritance in Java (with example) Ans When an Object acquires all properties and behaviours of parent Object i.e. known as inheritance. * It provides code reusability.

* It is used to achieve runtime polymorphim There are 3 dypes of inheritance in Javais @ Lingal inheritance 2) Multilevel inheritance Hierarchical inhenitance

Enample: 3class Student void Study () System. out. println (" Studying ..." Class Ram entends Animal {
void siere.c) { System. out. printen (" Sleeping .. class Test inheritance & public Static roid main (static args[7) [Ram a = new per Ram () a. Sleep (); a. Study (); Give différence between interface and abstract clay. Bry Interface :-Interface can have only abstract methods. Some It supports multiple inheritance. An Interface keyword is used to declare * Interface has only Static and final variable interface

¥	Interface can be implemented using keyword
	"Implements".
	Abstract Class:
*	Abstract class can have abstract and non-obstract
*	It doen't support multiple inheritance. Abstract keyword is used to declare abstract
*	Abstract keyword is used to declare abstract
	clah.
*	
	and Non-static variables,
*	
	"entends".
	2 garantings of the file of the
1	or signed interesting signed sides
5.>	Orre différence between method overding
	and method overloading (with Fnample)
3	in the state of th
	Method Overriding:
*	Method overriding is used to provide the Specific implementation of the method that is already provided by its super class.
	Specific implementation of the method that
	is already provided by it super alon.
*	It occurs in two classes that have 1s-A
	recationship.
*	In this case, paramoter and to accomp
*	ichia overraina il Han Propri
	von time polymorphicm
	J. To Profit

Method Overloading * Method Overloading is used to increase the readability of the program. * Method overloading is performed within class. * In case of method overloading, parameter must be différence * Method overloading is the enample of compile time polymorphism. Java Method Overloading enample. class Overloading Enample 1 Static int add (int a, intb) return a+b', Static int add (int a, int b, int c) { return atbtc; Lova Method overriding enample class Animal { void eat () } system. out, printeln (" * eating ... "); L close Dog entends Animal f clas Dog entents Animal void eat () system out, printeln ("eating meat.");