Java Day 5-Assignment

Scanner class:

Scanner class is used to get the input from the user out run time.

It is present in package Java. uti (utility)

Scanner Methods
Method Description
Method Description
Method Description
Method Description
Methods

Read a Boolean Value

from user.

Reads a byte value

restshort () - Reads a short value years the user.

Reads a short value years the user.

Reads a list value

nextInt () - Reads of int value

nexthong (1 - Reads a long halm from user.

next float reset Float () - Reads a float value from the user next flouble () - Reads a slouble value from the used reset him () - Reads a String Value from the user.

next () - Reads a String Value from the user.

## SYNTAX:

Scarner myobj = new Scanner (system in); Scarner myobj = new Scanner (system is);

Method calling:

syvame. Scanner Methods ();

En program:

nest Int mexthine ();

Package org. scanner;
umport java. utill. Scanner;
umport java. utill. Scanner;
public class Scannerscample {
public static void main (string []
public static void main (string []
Scanner s = new scanner (system. in);
System. out. Println ("Enter your name");
String data = S. next ();
String data = S. next ();
String data = S. next ();
System. out. Println ("Contain Your name:"+
System. out. Println ("Contain Your name:"+
...data):

Misson should - Otroda Journ oops concept: () shows it is cops (object-Oriented Programming System) Everything considered to be an object. robject-Orvented programming and us a methodology of paradigm to design a program wing It classes and objects. It development simplifies software development by namedian and maintenance by providing some concepts: - object scorner - class - Inheritano - Polymorphism. to star - Abotraction : Shutton - Encapsulation. Any entity that has state Seanness OBJECT: and behaviou is known as an object vision instana of class. sobject: super class of Java. CLASS: class is a bleprint(o) template
collection of objects is called
collection

Inheritance: Inheritance is a mechanism property of another class. we can access one class property from another class. when come object acquires all the peroperties and behaviors inheritance. - It provides vode reusability. Memory wastage is low It is used to achive nuntime Polymorphism to shake Important terminology: super class / parent dans / base dans sub vars hehild class) derived Mass. Superdass; whose fecutures the dass unaun as supud are unherited is known as supudars cora bare dans or parent dass). Subclass: the class of known as a that when class of derived class, extended by bubclass, or a derived class. dars, or child closs. The Jub claves can add its own fields and methods in addition to the superclass fields and methods fields and

Keusability.

Inheritarie (supports the conupt of reusability i.e., when we want to create a new class and there is valready a class that includes Some of the Coole that we want we can derive ou new class from existing class.

anno Lindona?

SYNTAX:

It provides redo reds dass dewed-dass extends but about class { "methods and fields

TYPES OF INHERITANCE:

Juigle Inheritance Multilevel Inheritante Multiple Inheritance Hierarchial Inheritance Hybrid Inheritance.

SNALE INHERITANCE:

when a iclass in heits another dass, It is known as Single Inheritance.

Ex Program: package org. inheurtance; pubic class Father { int tot-con=10; public void house () { System out prints ("Fathers house public void car (){ System. out. pour Hr ("Fathers cau method "); Parkage org. inheritance; Public class son extends pather { public void bike() & System.out-print In C'Sons bike gisho vainer method"); Public Static void main (String [] May orgs) 1 Son & = new Son (); S. bike (); S. car(); S. hour (); System out. Printhn (o. tok-con); Multilevel Inheritanu: when there is a chain of inheritance, It is known as multilevel Enhoustance.

Ex-program: package org. inhentance; public class student ¿ public void studentNames () System.out. println ("12 students"); public void small Task C) { System.out. Println C'ismall Task"; public weekly rosk () { System. out. Printo ("weekly Task"); Pacique Org. inheritant; public class Trainer extends Student ? punti vold took Vatidation () E System out print In C'Mask Validation") public void Evaluation () & System. out printer ("Evaluation"); public Static Void main (String (Jargs) { Trainer t = new Trainer ();

t weekly Task (1; t. tosk Validation (); ablic hard of Package org. inhaitanu; Public class Airte extends Trainer ? Public void main Evaluation () ? System. out printle ("Ailtes Main Evaluation"); Butter public static voidmain (strung [] aggs)
{ Aiite a = new Aiite(); va. main Evaluation (); a. Small Task (); Q. Evoluation(); Hierarical Inheritance: when two (or) more classes inherits a Single was, It is known as hierarchical wheritance. Ex program: package org. inheritante; public class Interview preparation I vist tot stu = 100; public void Java Question O Esystem out. Printly

("only Jour interview Question") Public void Schenium Quest con (1 { System out prinkly C' only Java interview Questions D; Paetage org. inheritance; public class Java Preparation oxtends Interview Preparention { ist istudent = 50; publie void javastuden+() & System out . printle (" Java class Student"); public Static Looid main (String [] args) 3 Java Preparation ip = new Java Preparation (); Jp. javastuden+(): Up java Question (). Package org inheritance; public das Selenin Preparation extends Interview perparation { int selstudent = 35;

public void Seleniumstudent () System. out phinkln ("Jana doss student 2 public Static void main (String [Jags) Salenium preparation sp = new Colenium Preparation (); 8p. Saleneumstudent (); SP. Salencian Question (); System out printer (sp. tot. stu); System. out. Println (sp. selstudent); MULTIPLE INHERITANCE: One class can inheuit properties of more than one parent class. To reduce the Complexity and Bringlish the language, multiple wis not Supported in Java. HYBRID. Hybrid Inheritance in Java is a Combination of two or more types

of when Hances.

Scanned with CamScanner

15-04-2023 Non-Access Mode fiel: final -> Kalue cannot be changed Stati Abstract -Scanner- predefined clous + - concatination 2505.40 A Scanner S = new Science (System in) S. next Int (); -> Integr S. next (); -> Steing return surge 5. neset Line (); > 5 tring to 2 multiple wordy It is present in parking Tava. Small tark: (utility) the reset Bato co, get nontine uput in all data types! tiques q badisy object overted programming System Inheritaire Code neusability Dirigh Inheritance. class unheret another class 1) prolling

