LENCAL ISSUES! > normal space character I WHITE STACES: a new line tetorader > lab character ocutes for marning variables I DENTIFIE DS shing consts, numeric constants LITERALS downentation comment (Him 1. multin 11 single line 5 SEPERATORS () 33 E]; , 50 heywords built in words, which are predefined KEYWINDS 3 keywords for badion wants (values) -> Tive simporto header files in E Z JAVA LIBRARIES They are a collection of predifyral firelies SCANNER CLASS IN TAVA java-util package is used for obtaing inputs of primitive types > To create an object of scanner class we pass the predefined object in System. in .nextInt() To recad integers we see · nextDouble() Il dulares an array of integers int arr[]; else if statements 11 allocating memory of 5 inligera as more effected arr = new int [5]; L) keyword Lingth = arrolingth Package Nome import java.util.* import java. util. Scamer wild card importing clau Name **Hey word** Indicatu snat we are gonna we all the clause of to

name of claus obj name (Systemin)

A class is a blueprint from which individual objects are created

- > Specifying a class doesn't create any objects of that class
 (In the same way specifying a structure in a doesn't create any variables
- > To create objects we need keyword new
- > The object variable type must be same as class

Cleaking an object is called instaking it. INSTANTIATING

The new operator instantates a class by allocating memory for new object & sectioning a reference to mat memory use invoke object continued in SAVA is like functions into

- * The programme starts an owns the main method
- * Anything outside the main method should be called first.

JVM - is an additional layer between the language z 05 which makes it platform independent.

Static - Thuith this keywood we needed instantiate math

void -> doesn't return any argument string argul 7 -> for command line prompt

Program - Bytacode intrepretor / secuting

NO IDE Ann go through command line.

How to debug code using break points

Segmentation fault error

Java Constructer: A constructer in pra 1s a method cused to inhalise object

> constrictive has some name as clay
> invoked when object class is call
> invoked when object class is call

Airectly creates and initialises.

Try Catch In Java

The try black contains set of statements when an exception can occur. A try block is always followed by a cake okek

try ?

// statements that may cause a exception

3

catch Cexception Ctype)

3

3

QUIZ 1 24/6/18

WHAT IS ENCAPSULATION wasping data & cool to secure them from outside interface

HOW INHERITABLE IS USEFUL FOR PROGRAMI

Allows only authorised user through class & Objiconch

Crewing municial & data from some own class Super class

DULYMORPHSM SUPPORTED IN C++ Frue

MOW MAIN FUNCTION OF JAVA CLASS IS GETTNIS EXECUTED WITHOUT INSTANTIATION

only function which vuens without instanting anobj

```
OBJECTS AS PARAMETERS
      claus Box
      double d, w, h;
     Box (Box 0b)
        2 d= obod;
        W = 00.00;
        h = 0b.h;
     Box (double a, double b, double c)
       1a= 53
       h= Ci
   3 public static roid main (String augs [1)
  clau new
      Box mytox= new Box (1.1, 2.2,33);
      Box myclan = new Box (mybox);
                                                           100
   ALLESS SPECIFIERS
   3 tyru
 -> public - can be accused by anybody
-> private - only by public methods inside the class
-> protected only in duried day
```

An ocess specifier is a defeneng code element that can determine which elements of a program are account to acces a specific variable or other piece of data

Constructus Overloading

class Box

3 double width;

Box (double a, double b, doublec)

Box ().

Box (double len)

double vol()

ocetur w+d+h;

- > Objects as arguments
-) OBjects as parameters

INTERFACES

- > Interpret looks likes class but it
- > It can have methods 2 variables just like class but methods deidans as abor
- used for full abstraction
- We can have more than Ore interface in class

Memod overloading is a feature that allows a class to have more than one method having the same name

- number of parameters add (int int) add (int int int)
- 2) data type of parametes add (int, int) add (int flow)
- 3) sequence of data type add (int, float) oretion synce static of vois

Having more than one constructor with clifferent parameter such that lach constructor performs a different task Constructor overloading

- A consmitter is a method name of continuous it name of con-
- > ro vetur valu
- > It is a block of rade similar to other methods but in cand when an instance of that class is water

Instablation is the process of dealing a class

default constructor

- is included to the class which doesnot have a combula when it is coming for compilation

class a I int b; a() 2 3; void (()



3 sop(a);3

nIslis

Destrudos

Limbore.

The vusowies to be subard within the object is no long un use.

Java System

* garbage collection () (inbuit method receited mate. remoderally java collects

for objects not in suc it will not allocate resour

We cannot call a dutwick

Durnicher will sen at system level weer will not know

```
class textnow
day tot
 I inta.
                              public states roud man
 public int by Il same as int b;
                                              (String augs (1)
 private int c;
                               test ob - new test();
Void sete (int?)
  2 cois
                                00.0 = 10,
  int gete ()
                                06.6.20,
   ? outur (,
                               06.c = 30; 11 ella
                               Ob. Set (30).
                             a: oh ack ()
                              5.0. P ("c"+a);
ARRAY OF OBJECTS:
  class employee
    int a,b,c;
     void Intt
     } a=10 ;
       D = 20,
  rold add ()
       SOP ("1:"+C).
 day my
 nutte state void main (String ags [])
    3 employee [] emp = new employee [3].
                                        Lo square bracket
                                           mentioning the stre
               away name
    empto] = new employur();
emp[1] = new employur();
   emp [2] = new imployer ();
```

Attributes of a method

—) пате

-) paiometers

- orehun type

mished name need not be unique we can differentiate between sum units parameter and setuen type

int add () int add (int a)

yold add (double a, double)

polymorphism is achervable by method overlanding

class over

²vold test ()

\$50P ("No Param"); }

void test (int a)

2 50P ("a="+a); 3

void test (int a, int b)

SOP (" a+b=" +6+b))3

double test (double a)

350P (" doubte a = " +a);

vietura;

class aerloaddimo

3 public static void main (String arys [])

Over 0 = new over ()

double res;

0. Test ())

0 - test (10);

m +11 × /12).

No power

Scanned by CamScanner