ROURKELA INSTITUTE MANAGEMENT STUDIES

(BCA 3rd Semester Online Mid-Term Exam, 2020)

Online Internal Examination (Test-1)	
Course & Year : BCA 2nd Year	
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10 Wrapper Class En JAVA

Wrapper Class so the class in JAVA which consists of all the primitive detatypes and hence, provides a way to Emplement them in a program. It also provides way to convert the premitive detatypes into objects and vice-versa. The Wrapper Class comes under the "java-lang" package.

As JAVA doesn't support call-by-reference method, so if we pass data variables to the parameters then the actual values will not get affected; but, if we pass the data as objects but the parameter, then the actual values will be updated as per the changes done to the parameters.

Example
yord swap (int n , y)

{

int c = x;

x = y;

y = x;

Public static void maln (storing args[])

Ent a = 10, b = 20;

swap (a, b);

System. out. prelnt ("A = "+a+" \tB = "+b);

iters of 'x' and 'y'
will get swapped
but will not
oget updated to
'a' & b'.
But if we
poss them as
objects then
it will be
updated.

Abstract Class

- · Abract class to used for data abstraction in a progression
- · It can have both abstract as well as non-abstract mothedo.
- · Abatoant class can have the methods · Interface has only static final, non-final, static and non-static.
- · Keyword: "extends"

Interface

- · Interface in the method used in Abatrack wass to achieve data abstraction.
- · It can only have the abstract methods.
- and fined veriables.
- · Keyword: "implementes"

3) JAVA Package -> A java popa package is a group of similar, classes, interfaces and subpackages. It is categorised into suro sypes; · Bullt - in

· User-defined

These are used to congonize the classes, objects etc., provide seure access and avoid name collisions.

Example showing meation of user-defined package: package my New Pack; public dans NewPack public static void main (Storing args[]) System. out. privile ("Welcome to my new package.");

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Method Overloading > In a ser program, if a class has various methods/functions with different parameters but have some name, then its said to be Method Over loading Example: int change (and n, y) void change (Storing or) boolean change (int a)

Method Overriding -> In a program, if a subclass of a class has the same methods as declared In parent class, then it is said to be Method Overræding.

Example: - class one int input (int xing)

3 class sub-One extrands One

E and input (int re, int y)

{

```
Programming
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1.) Decimal to Binary using array:
import jova. lang . *;
import javo. utll. *;
import Jeva. io - * ;
lass DecimalToBinery
    public static void main (Storing args[])
      ant n
       Seanner 03 = new Scanner (System. in);
       System. out-print ("Input Decimal No.: "); n = os. nextInt();
       int binNum[] = new that [1000]; Out i = 0;
       for (int i=0; n>0; n/=2,i++)
          binNum[i] = n 1/2;
       System.out. projectle (" Binaty Form: ");
       for (intj=0; i=0; j--)
       & System. out. print (binNum (i));
```