Interface Sample! sont long & emeant, beginning and tommes deliver void test (C);

Class A implements Samplel ¿ public void testell) to ted as final, such closed upmot

class Runt me character str (x+)

psym (String[] angs) Rop (Program Starts ... "); ITaly

at al = new A() indo long + FT alter! (); and logtli is Sop (" Program ends)

O/p: Program starte... Boxtood (+0) test (() implemented in Class A frogram ende ...

1) An interface " one of the java type definition block which is 100% abstract.

Interface | 9 8RC

2x) All interface methods are by default abstract and public

3x) An interface method need not Sop ("text 1() implemented in class A"); to be declared as abstract bec by defoult all methods are abstract.

> 4x) We connot develop static method inside interface.

5x) An interface methods connot be declared as final.

6*) Interface voriable has to be initialized at the time of declaration,

7*) By default the interface itself 4 a abstract,

() I tot biev tentedo Jorn 8 x) Compiler generales Classile & interface defition block.

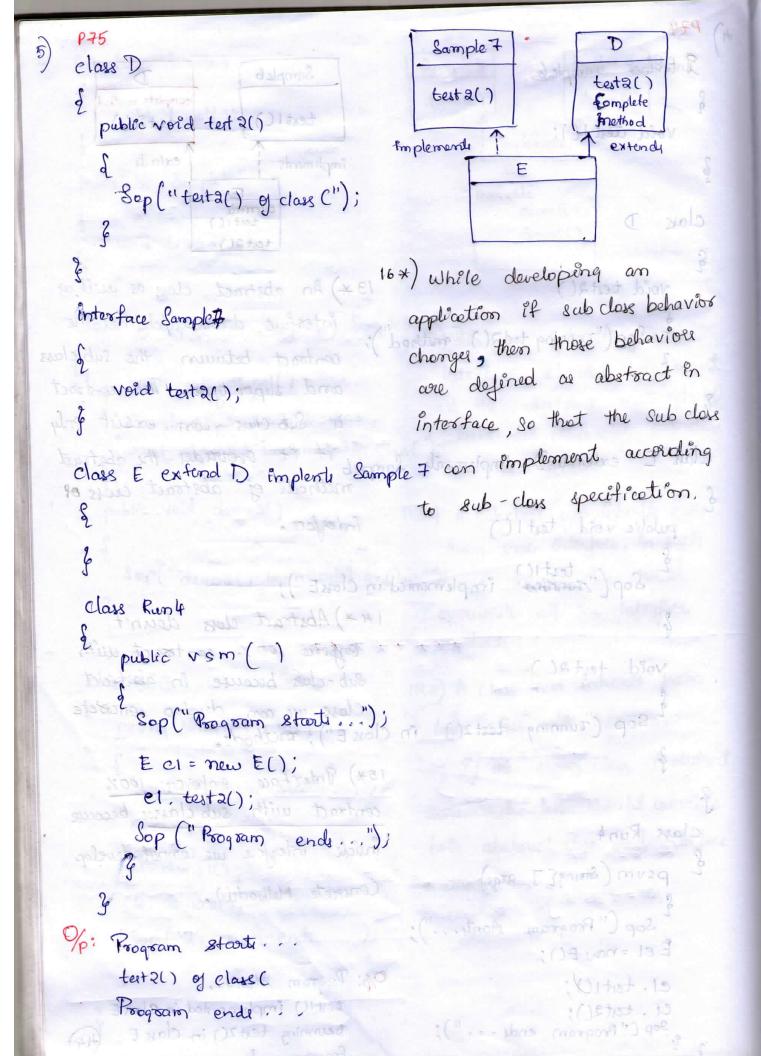
9 *) An interface methods can get body or implementations in Sub Classes,

8x 1) Sample interface Sample 2 test() void test (); implements interface Sample3 extends Sampled override void test 2(); test1() Ex 2) Sample 2 Class B implements Sample3 test(() public void test () extends & Sop("test(() implemented in class B"); Sample 3 public void testal) testa() implements ¿ sop ("test &() implemented in Class B"); override test (1) testal) 12x) A class con inherent class Runa & psum (Storng[] args) Sop ("Program starti..."); B bl = new B() - Makedler bl. test((); b1. text 2(); Sop ("Program ende...");

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3) Enterstace Sample 4 Sample 4 Sample 5 demol() void demol(); demost) implements interface Sample 5 overside demoll) void demo a(); demo2() Class C. implements Sample 4, Sample 5, Sub class in housing an ٤ interface should implement peublic void demol() all the abstract methods of implements Sop ("demoi() implemented in Class("); interface, otherwise sub class becomes abstract. public void demost) 11 x) A subclass con inherite more then one interface, in such Sop (" demo 2 () implemented in Class ("); case the sub-class should overwrite all the interface 3 methods Class Run3 12x) A class con inherit from psvm (String[] args) both class and interfece. If the super class is abstract Sop (" Program start ..."); then sub-class should overvide C cl = new C(); both abstract class and interfore c1. demol(); methods (). Oltobald C2. demo 2(); Sop ("Program ende ..."); 3 Top (moran entre

```
Interface Sample 6
                                         Sample 6
                                                       complete moth
                                          test (()
                                                         testa()
  void dest 1();
                                                        extends
                                      implements
                                              Override
class D
                                    13 x) An abstract class as well as
    void testal)
                                        interface describer/definer the
   2 Sop ("running text2() method);
                                       contract between the sub class
                                       and super type. The contract
                                       is Sub class can exsist only
Class E extende D implements Sampleb it it overvides the abstract
                                      methods of abstract class of
                                      Enterface.
    public void test ()
       Sop ("aunition implemented in classe");
                                    1 + *) Abstract class down't
                                      enforce 100% contract with
     void testal)
                                      Sub-closs because in abstract
                                      Closs we can develop concidete
       Sop ("bunning test 2()
                              in Class E"); methods.
                                    15x) Interface enforces 100%
                                     contract with sub classes because
  class Run 4
                                     inside interface me connot develop
  2 psum (String[] args)
                                    Concrete Methods().
       Sop ("Program starty...");
     Eel = new E();
                                    %: Program starts ...
      cl. test (1);
                                         test() implemented in Clank
      er. terta();
                                         terning text 2() in class E
      Sop (" Program end. .. ");
                                         Bogram endy . ..
```



Sample 8 abstract class D and alvales abetract test2() test2() abstract void testa(); Emplements extends interface Sample 8 void test ?(); test 2() (String) (aras) class E extends D implements Sample 6 ... Troots morpor?) god public void test2() ((1.8 slgmo8 + "=1") god Sop(" text 2 () implemented inclass E"); FRE = 1 . 8 slames 4 30p (" 1 = " + Somple 8.1); Class Runy ("... , shop morpood") 908 psvm() Sop ("Program starte, x."); * * * * * E el = new E(); el. test2(); Sop ("Program ende.."); boolean b = true; 1 99 16 H 3 1 1 1 1 is of integer type 3+ netrogenous Ofp: Program starte. test2() implemented in class E Program ende ...

```
17*) All interface variable
7
                                           default final and static
    interface Sample 8
       int i = 1012; //static variable by defoult
    B
                                                         interface Sample 8
    class Runs
        perm (String[] args)
          Sop ("Program starte...");
          Sop (" = " + Sample 8. i);
         Sample 8. i = 1227; //error; boliming () 5+5+11
         // interface variable are final
        1 cont reassign.
         Sop (" = " + Sample 8. 1);
                                                              Class Promit
         Sop ("Program ends ...");
         B
       3
                                                  LHS = RHS
                                             " int i = 10;
  1, * Java understandsonly Homogenous
                                              double d = 21.66;
                                               boolean b = true;
      1) (nt 1;
                                                          LHS # RHS
                                                        P Port K= 21.66;
```

i is of integer type how to read? d is of double type 2) double d; type 3) boolean b; bû of boolean type

2x hetrogenous double b = 10; assignment Statements

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