```
class Test
     1 static int i = 10;
                                                                              Steps followed by JVM
     2 static
                                                                 1. Identification of static members from top to bottom
           methodOne(); 8
                                                                              i = 0 RIWO Step 1 to 6
          System.out.println("First static block"); 10
                                                                               j = 0 Read Indirect Write only
     3 public static void main(String[] args)
                                                                 2. execution of static varaibles assignments and static block
                                                                    execution from top to bottom
           methodOne(); 13
                                                                                       R&W Step 7 to 12
          System.out.println("Inside main method"); 15
                                                                               j = 20 | Read and Write only
                                                                 Execution of main method Step 13 to 15
     4 public static void methodOne()
          System.out.println(j); 9 , 14
     5 static
          System.out.println("Second static block"); 11
     6 static int j = 20; 12
  First static block
  Second static block
  Inside main method
                                                                                                                 class Test
  class Test
                                                                                                                  1 static
                                                 class Test
                                                                                                                                                           i = 0 [RIWO]
                                                                                        i = 0 [RIWO]
   1 static int i = 10;
                                 i = 0[RIWO]
                                                                                                                          methodOne(); 5
                                                   1 static
                                                                                                                                                               Read Indirectly
   2 static
                                                                                              Read Indirectly
                                 i = 10[R\&W]
                                                           //direct read
        //direct read
System.out.println(i); 5
                                                                                                                   public static void main(String[] args) i = 10[R&W]
                                                        System.out.println(i);
                                                  2 public static void main(String[] args)
   3 public static void main(String[] args)
                                                                                                                   3 public static void methodOne()
                                                                                                                        //indirect read
System.out.println(i); 6
                                                  3 static int i = 10;
                                                                                                                   4 static int i = 10; 7
Output
                                                 CompiletimeError:Illegal forward reference
                                                                                                                 Output
                 Driver software
                    (class)
                                                                       Database
                     JRE( JDBC)
                                                                     StorageMedium
  Capable of setting environment for java program execution
     class Driver
         static
            //Register the driver with DriverManager(Setting JDBC environment)
 class Student
     //instance variable
     int sid;
     String sname; 3
     int sage;
     //constructor: shadowing -> resolved through "this"
     Student(int sid, String sname,int sage)
        this.sid = sid;
        this.sname = sname;
        this.sage = sage;
     //instance block
        sid = 100;
        sname = dhoni;
        sage = 41;
```

v print object data

sname

sage

std ——

12345H

dhoni sachin

//instance method

class Test

public void dispStdDetails()

std.dispStdDetails();

6. return the reference.

System.out.println("SID is :: "+sid);
System.out.println("SNAME is :: "+sname);

System.out.println("SAGE is :: "+sage);

Student std = new Student(10, "sachin", 50); 2

4. scan for the instance block, if found load and execute.

☆ constructor

2. load the class[only one time]
 3. scan the instance variable allocate memory fill with default value.

5. make a call to constructor and give the values supplied by programmer

public static void main(String[] args) 1

```
class Test
 3 int i = 10;
 4 {
       methodOne(); 10
      System.out.println("First instance block"); 12
 5 Test()
                                                           1. Identification of instance members from top to bottom.
                                                                       i = 0
j = 0
RIWO
       System.out.println("Test class constructor"); 15
   public static void main(String[] args) 1
                                                           2. Execution of instance variable assignment and instance
                                                                 block execution from top to bottom
       Test t =new Test(); 2
                                                                       i = 10
       System.out.println("Inside main method"); 16
                                                                        j = 20
 6 public void methodOne()
                                                            3. Execution of constructor
       System.out.println(j); 11
       System.out.println("Second instance block"); 13
  8 \text{ int } j = 20; 14
Output
First instance block
Second instance block
```

Test class constructor

Inside main method