Name: MD. Atif Practice Abstraction Rahman Rudno IO: IT-22002 importjava. io. Print Stream intenface Machine { Print Stream o= System.out void initial Engine (); void final Engine (); out about a moderno public con (Stalog Inademank int man abstract class Transport { on Busting trademan Kimpton) morns int manuf Year, int engine Capacity: public Transport (String trademanks in) many freamint engine Capacity &

this manufyean = manufyean;

this engine Capacity = engine Capacity;

abstract void proper ();

```
public void exhibit Info () {
  Machine.o.printin ("Trademark: " + trademark
       +". Manufactore Year: "+ manuf Year 1"
          Engine Capacity: "tengine Capacity):
class Can extends Transport implement Machines
 public Can (String trademark, int manuf Year)
              intengine Capacity) {
      super (trademank, manuf Year, engine
                   Capacity);
 @ Overnide
 public void initial Engine (){
     o.pnintin ("Can Engine is stanting. .."):
@ Ovennide
 public void final Engine () {
```

```
opnintln (" Can engine is ending ... "):
@ Ovennide
public void propel () {
     O.pnintin ("Can is being driven ... ");
 3
class Bike extends Transport Implements Machine
  public Bike (String trademark, int manuf Year-
         intengine Capacity) {
      super (trademank, manuf Year, engine Capacity):
@ Ovennide
 public void initial Engine () (ilia bloomidage
 opprintin ("Bike engine is stanting ... ");
   3
@ Ovennide
  public void final Engine () { I bovolded
 o paintly ( a Bock eagine is eading . );
```

```
o.pninHn ("Bike engine is ending ...");
 @ Ovennide
 public void propel () { ) () lagong brownishing
     o.printin ("Bike is being node ...")
  class Boat extends Transport implement Machinel
         ass Bike extends Thouspont, mple
      public Boat (String trademarks in Longraf Year
               intengine Capacity) {
         Super (trademark, manuf Year, engine Capacity)
                 superof trademant many
 @ Overnide
                                   Shimmo ( 6)
  public vold Initial Engine () ( .... box siding
p.p. dir ("Boat engine is stanting ...")
@ Ovennide
                                   obinno vo w
  public void final Engine () [] box aildag
      O.println ("Bootengine is ending ...);
```

```
Il co Overnide alla a dia won - and the gament
      public void propel() {
         O. preintln ("Boat is being sailed ... )
                ((Machine) bake) inited Engine ();
                                  ( ) lagong. grid
                   ((Maching) ble) final Engine ()
    public class Abstraction {
        public static vold main (string[] angs) {
    Machine o printing "I am Md. Atif Rahman Rudro.
                      My ID Is IT-22002");
                 ((Machine) boat) : intial Engine ():
      Machinero.prinHn();
                                  Colong. tood
     Transport Con = new Can ("X-Conolla", 2002, 1000)
      can exhibit Info ();
     ((Machine) condinitial Engine ();
      can.propel();
                                        : +wgto0
     ((Maching) can) final Engine () - HA by mo E
     Syste Machine. o. printin ();
            Engine Copocity: 1000
```

```
Transport bike = new Bike ("Heno-Honda" 2001
                         150);
      bike.exhibitInfo()
                          of tool of tongo
      ((Machine) bike). Initial Enginel);
      bike proped ()
      ((Machine) blke). final Engine ();
      Machine.o.paintin();
        Enplie Etatic roid main ( Equital 3 sildne
      Transport boat = new Boat ("Osprey", 2002, 1500);
      boat. exhibit Info ();
     ((Machine) boat). Initial Engine ();
                           Machine . o. printla ()
      boat propel ();
((Maching boot), Anal Engine ()
                            connexhibitInfo():
                 ((Machine) can) initial traine ();
      Output:
                                Econoped ()
      I am Md. AHf Rahman Rudno. My IDIS: IT-22002
      Trademank: X-Conolla, Manufacter Year: 2002.
```

Engine Capacity: 1000

Can engine is stanting ...

Can's being driven ...

Can engine is ending ...

Trademark: Hero-Honda, Manufacture Year: 2001-Engine Capacity:

Bike englie is stanting ...

Bike is being node ...

Bike engine is ending . - .

Trademank: Osprey, Manufacture Year: 2002, Engine
Capacity: 1000

Boat engine is stanting ...

Boat is being sailed ...

Boat engine is ending ...