PROGRAM - 1

```
class Player{
 String name;
 int age;
 Player(String n,int a){
   name=n;
   age=a;
 }
 void show()
 {
  System.out.println("Player name: "+name);
  System.out.println("Age: "+age);
 }
}
class cricket_player extends Player{
 String type;
 cricket_player(String n,String t,int a){
  super(n,a);
  type=t;
 }
 public void show()
  super.show();
  System.out.println("Player type : "+type);
 }
}
```

```
class football_player extends Player{
  String type;
  football_player(String n,String t,int a)
 {
  super(n,a);
  type=t;
 }
 public void show()
  super.show();
  System.out.println("Player type : "+type);
 }
}
class hockey_player extends Player{
 String type;
 hockey_player(String n,String t,int a)
 {
   super(n,a);
   type=t;
 }
 public void show()
 {
   super.show();
   System.out.println("Player type : "+type);
 }
```

```
public class Main{
  public static void main(String args[])
  {
    cricket_player c=new cricket_player("Rohit","Cricket",20);
    football_player f=new football_player("Rahul","Football",21);
    hockey_player h=new hockey_player("Aditya","Hockey",22);
    c.show();
    f.show();
    h.show();
}
```

```
class Player{
    String name;
    int age;
    Player(tring n,int a){
        name=n;
        age-a;
    }
    void show()

11    {
        System.out.println("Player name: "*name);
        System.out.println("Age: "*age);
    }

14    }

15     system.out.println("Age: "*age);
    // System.out.println("Age: "*age);
    //
```

PROGRAM - 2

```
class Rectangle{
  int length, breadth;
  Rectangle(int I, int b){
    length = I;
    breadth = b;
  }
  void area(){
    System.out.println("Area of Rectangle: "+(length*breadth));
  }
  void perimeter(){
    System.out.println("Perimeter of Rectangle: "+ (2*(length+breadth)));
  }
}
class Square extends Rectangle{
  int side;
  Square(int s, int l, int b){
    super(l, b);
    side = s;
  }
  public void area(){
    super.area();
    System.out.println("Area of Square: "+(side*side));
  }
  public void perimeter(){
    super.perimeter();
    System.out.println("Perimeter of Square: "+(4*side));
```

```
}
}
public class Main
{
               public static void main(String[] args) {
                              Square sq = new Square(8, 20, 15);
                              sq.area();
                              sq.perimeter();
               }
}
               ss Rectangle{
int length, breadth;
Rectangle(int 1, int b){
   length = 1;
   breadth = b;
  3 4
5 6
7 8 9
10 11
12 13
14 15 }
16 17 cl
               void area(){
   System.out.println("Area of Rectangle: "+(length*breadth));
               void perimeter(){
    System.out.println("Perimeter of Rectangle: "+ (2*(length+breadth)));
        class Square extends Rectangle{
   int side:
18 int side:

' ' 3

Area of Rectangle: 300

Area of Square: 64

Perimeter of Rectangle: 70

Perimeter of Square: 32
  ..Program finished with exit code 0 ress ENTER to exit console.
```