```
Sumedh ahire
FYMCA-B 03
BATCH 1
ASSIGNEMT 7
CODE:
public class Player {
  private String name;
  public Player(String name) {
    this.name = name;
  public void practice() {
    System.out.println(name + " is practicing.");
  public String getName() {
    return name;
}
class Cricket_player extends Player {
  private double battingAverage;
  public Cricket_player(String name, double battingAverage) {
    super(name); // Call the superclass constructor
    this.battingAverage = battingAverage;
  }
  public void playCricket() {
    System.out.println(getName() + " is playing cricket with a batting average of " + battingAverage + ".");
}
class Football_player extends Player {
  private String position;
  public Football_player(String name, String position) {
    super(name); // Call the superclass constructor
    this.position = position;
  }
  public void playFootball() {
    System.out.println(getName() + " is playing football at the " + position + " position.");
}
class Hockey_player extends Player {
  private int slapShotSpeed;
```

```
public Hockey_player(String name, int slapShotSpeed) {
    super(name); // Call the superclass constructor
    this.slapShotSpeed = slapShotSpeed;
  public void playHockey() {
    System.out.println(getName() + " is playing hockey with a slap shot speed of " + slapShotSpeed + "
mph.");
public class Main {
  public static void main(String[] args) {
    Player player1 = new Player("John Doe");
    player1.practice(); // Call a method from the base class
    Cricket_player cricketer = new Cricket_player("Sachin Tendulkar", 54.05);
    cricketer.practice(); // Inherited method from Player
    cricketer.playCricket(); // Specific method of Cricket_player
    Football player footballer = new Football player("Lionel Messi", "Forward");
    footballer.practice(); // Inherited method from Player
    footballer.playFootball(); // Specific method of Football_player
    Hockey_player hockeyPlayer = new Hockey_player("Alexander Ovechkin", 100);
    hockeyPlayer.practice(); // Inherited method from Player
    hockeyPlayer.playHockey(); // Specific method of Hockey_player
  }
}
OUTPUT:
ohn Doe is practicing.
achin Tendulkar is practicing.
achin Tendulkar is playing cricket with a batting average of 54.05.
ionel Messi is practicing.
ionel Messi is playing football at the Forward position.
lexander Ovechkin is practicing.
lexander Ovechkin is playing hockey with a slap shot speed of 100 mph.
```