

1)

```
package ZSGS;
```

```
class Book    {
```

```
    private String title;
```

```
    private int ISBN;
```

```
    private String authorName;
```

```
    private int publishedYear;
```

```
    public Book(String title, int ISBN, String authorName, int publishedYear) {
```

```
        this.title = title;
```

```
        this.ISBN = ISBN;
```

```
        this.authorName = authorName;
```

```
        this.publishedYear = publishedYear;
```

```
    }
```

```
    Book() {
```

```
    }
```

```
    public String getTitle() {
```

```
        return title;
```

```
    }
```

```
    public void setTitle(String title) {
```

```
        this.title = title;
```

```
    }
```

```
    public int getISBN() {
```

```
        return ISBN;
```

```
    }
```

```
    public void setISBN(int iISBN) {
```

```
        ISBN = iISBN;
```

```
    }
```

```
    public String getAuthorName() {
```

```

        return authorName;
    }

    public void setAuthorName(String authorName) {
        this.authorName = authorName;
    }

    public int getPublishedYear() {
        return publishedYear;
    }

    public void setPublishedYear(int publishedYear) {
        this.publishedYear = publishedYear;
    }

    void asString() {
        System.out.println("Book [title=" + title + ", ISBN=" + ISBN + ", authorName=" +
authorName + ", publishedYear=" + publishedYear + "]");
    }
}

public class Assignment {

    public static void main(String[] args) {
        Book b1 = new Book();
        b1.setTitle("Harry Potter");
        b1.setISBN(123);
        b1.setAuthorName("J K Rowling");
        b1.setPublishedYear(1997);
        Book b2 = new Book("Percy Jackson", 422, "Rick Riordan", 2005);

        b1.asString();
        b2.asString();
    }
}

```

2)

```

class Employee    {

```

```
private String name;  
private int id;  
private String role;  
private int salary;
```

```
Employee() {}
```

```
public Employee(int id, String name, String role, int salary) {  
    super();  
    this.id = id;  
    this.name = name;  
    this.role = role;  
    this.salary = salary;  
}
```

```
public String getName() {  
    return name;  
}
```

```
public void setName(String name) {  
    this.name = name;  
}
```

```
public int getId() {  
    return id;  
}
```

```
public void setId(int id) {  
    this.id = id;  
}
```

```
public String getRole() {  
    return role;  
}
```

```
public void setRole(String role) {  
    this.role = role;  
}
```

```
public int getSalary() {  
    return salary;  
}
```

```

        public void setSalary(int salary) {
            this.salary = salary;
        }

        @Override
        public String toString() {
            return "Employee [name=" + name + ", id=" + id + ", role=" + role + ", salary=" +
salary + "]\n";
        }

    }

    public class Assignment {

        public static void main(String[] args) {
            Employee e1 = new Employee(1, "Dinesh", "Developer", 2000);
            System.out.println(e1.toString());
        }
    }

```

3)

```

class Flight    {

    private int flightNo;
    private String airline;
    private String departureAirport;
    private String arrivalAirport;
    private int ticketPrice;
    public Flight(int flightNo, String airline, String departureAirport, String arrivalAirport, int
ticketPrice) {
        this.flightNo = flightNo;
        this.airline = airline;
        this.departureAirport = departureAirport;
        this.arrivalAirport = arrivalAirport;
        this.ticketPrice = ticketPrice;
    }
    public int getFlightNo() {
        return flightNo;
    }
    public void setFlightNo(int flightNo) {
        this.flightNo = flightNo;
    }
    public String getAirline() {
        return airline;
    }
}

```

```

    }
    public void setAirline(String airline) {
        this.airline = airline;
    }
    public String getDepartureAirport() {
        return departureAirport;
    }
    public void setDepartureAirport(String departureAirport) {
        this.departureAirport = departureAirport;
    }
    public String getArrivalAirport() {
        return arrivalAirport;
    }
    public void setArrivalAirport(String arrivalAirport) {
        this.arrivalAirport = arrivalAirport;
    }
    public int getTicketPrice() {
        return ticketPrice;
    }
    public void setTicketPrice(int ticketPrice) {
        this.ticketPrice = ticketPrice;
    }
    @Override
    public String toString() {
        return "Flight [flightNo=" + flightNo + ", airline=" + airline + ", departureAirport=" +
departureAirport
        + ", arrivalAirport=" + arrivalAirport + ", ticketPrice=" + ticketPrice +
        "]" ;
    }
}

```

```

public class Assignment {
    public static void main(String[] args) {
        Flight f1 = new Flight(123, "Air Asia", "Chennai", "Delhi", 5000);
        System.out.println(f1.toString());
    }
}

```

4)

```

class Movie {

    private String title;
    private String genre;

```

```
private int releaseYear;  
private int rating;  
private String director;
```

```
public Movie(String title, String genre, int releaseYear, int rating, String director) {  
    this.title = title;  
    this.genre = genre;  
    this.releaseYear = releaseYear;  
    this.rating = rating;  
    this.director = director;  
}
```

```
public String getTitle() {  
    return title;  
}
```

```
public void setTitle(String title) {  
    this.title = title;  
}
```

```
public String getGenre() {  
    return genre;  
}
```

```
public void setGenre(String genre) {  
    this.genre = genre;  
}
```

```
public int getReleaseYear() {  
    return releaseYear;  
}
```

```
public void setReleaseYear(int releaseYear) {  
    this.releaseYear = releaseYear;  
}
```

```
public int getRating() {  
    return rating;  
}
```

```
public void setRating(int rating) {  
    this.rating = rating;  
}
```

```

    public String getDirector() {
        return director;
    }

    public void setDirector(String director) {
        this.director = director;
    }

    @Override
    public String toString() {
        return "Movie [title=" + title + ", genre=" + genre + ", releaseYear=" + releaseYear
+ ", rating=" + rating
                                + ", director=" + director + "]";
    }
}

public class Assignment    {
    public static void main(String[] args) {
        Movie m1 = new Movie("Vikram", "Thriller", 2022, 8, "Lokesh");
        System.out.println(m1.toString());
    }
}

```

```

5)
package ZSGS;

import java.util.*;

class Team    {

    private String teamName;
    private String city;
    private String division;
    private List<Player> players;

    public Team(String teamName, String city, String division) {
        this.teamName = teamName;
        this.city = city;
        this.division = division;
        this.players = new ArrayList<>();
    }

    public String getTeamName() {

```

```

        return teamName;
    }

    public void setTeamName(String teamName) {
        this.teamName = teamName;
    }

    public String getCity() {
        return city;
    }

    public void setCity(String city) {
        this.city = city;
    }

    public String getDivision() {
        return division;
    }

    public void setDivision(String division) {
        this.division = division;
    }

    void playGame()    {
        System.out.println("The team" + teamName + "is playing");
    }

    void hireCoach()    {
        System.out.println("The team now has new coach");
    }

    void addPlayer(Player player)    {
        players.add(player);
    }

    void getPlayers()    {
        for(var i: players)    {
            System.out.println(i.getJerseyNumber() + " " + i.getPlayerName());
        }
    }
}

class Player {

```



```
private String playerName;
private String position;
private int jerseyNumber;

public Player(String playerName, String position, int jerseyNumber) {
    super();
    this.playerName = playerName;
    this.position = position;
    this.jerseyNumber = jerseyNumber;
}

public String getPlayerName() {
    return playerName;
}

public void setPlayerName(String playerName) {
    this.playerName = playerName;
}

public String getPosition() {
    return position;
}

public void setPosition(String position) {
    this.position = position;
}

public int getJerseyNumber() {
    return jerseyNumber;
}

public void setJerseyNumber(int jerseyNumber) {
    this.jerseyNumber = jerseyNumber;
}

void playGame()    {
    System.out.println(playerName + "is playing the game");
}

void train()    {
    System.out.println(playerName + "is trained now");
}
```

```
}
```

```
public class Assignment    {
```

```
    public static void main(String[] args) {
```

```
        Team csk = new Team("CSK", "Chennai", "IPL");
```

```
        Player p1 = new Player("Dinesh", "Batsman", 1);
```

```
        Player p2 = new Player("Kumar", "Bowler", 2);
```

```
        Player p3 = new Player("Mooley", "All rounder", 11);
```

```
        csk.addPlayer(p1);
```

```
        csk.addPlayer(p2);
```

```
        csk.addPlayer(p3);
```

```
        csk.getPlayers();
```

```
    }
```

```
}
```