

## Slip 15

### 10 Marks:

```
java
Copy code
import java.io.*;

class SortCommandArgs {
    public static void main(String[] args) {
        int n = args.length;
        int[] numbers = new int[n];

        for (int i = 0; i < n; i++) {
            numbers[i] = Integer.parseInt(args[i]);
        }

        int temp;
        for (int i = 0; i < n; i++) {
            for (int j = i + 1; j < n; j++) {
                if (numbers[i] > numbers[j]) {
                    temp = numbers[i];
                    numbers[i] = numbers[j];
                    numbers[j] = temp;
                }
            }
        }

        System.out.println("Sorted numbers:");
        for (int number : numbers) {
            System.out.print(number + " ");
        }
    }
}
```

### 20 Marks:

```
java
Copy code
import java.io.*;
import java.util.*;

class CricketPlayer {
    String name;
    int noOfInnings, noOfTimesNotOut, totalRuns;
    float batAvg;

    public CricketPlayer(String name, int noOfInnings, int noOfTimesNotOut,
int totalRuns) {
        this.name = name;
        this.noOfInnings = noOfInnings;
        this.noOfTimesNotOut = noOfTimesNotOut;
        this.totalRuns = totalRuns;
        this.batAvg = (float) totalRuns / noOfInnings;
    }
}
```

```

        public static void sortPlayers(CricketPlayer[] players) {
            Arrays.sort(players, Comparator.comparingDouble(p -> -p.batAvg)); //
Sort by batAvg in descending order
            System.out.println("Players sorted by batting average:");
            for (CricketPlayer player : players) {
                player.display();
            }
        }

        public void display() {
            System.out.printf("Name: %s, Innings: %d, Not Out: %d, Total Runs:
%d, Batting Average: %.2f\n",
                            name, noOfInnings, noOfTimesNotOut, totalRuns,
batAvg);
        }

        public static void main(String[] args) throws IOException {
            BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
            System.out.print("Enter the number of players: ");
            int n = Integer.parseInt(br.readLine());
            CricketPlayer[] players = new CricketPlayer[n];

            for (int i = 0; i < n; i++) {
                System.out.println("Enter details for player " + (i + 1));
                System.out.print("Enter name: ");
                String name = br.readLine();
                System.out.print("Enter number of innings: ");
                int innings = Integer.parseInt(br.readLine());
                System.out.print("Enter number of times not out: ");
                int notOut = Integer.parseInt(br.readLine());
                System.out.print("Enter total runs: ");
                int totalRuns = Integer.parseInt(br.readLine());

                players[i] = new CricketPlayer(name, innings, notOut, totalRuns);
            }

            sortPlayers(players);
        }
    }
}

```