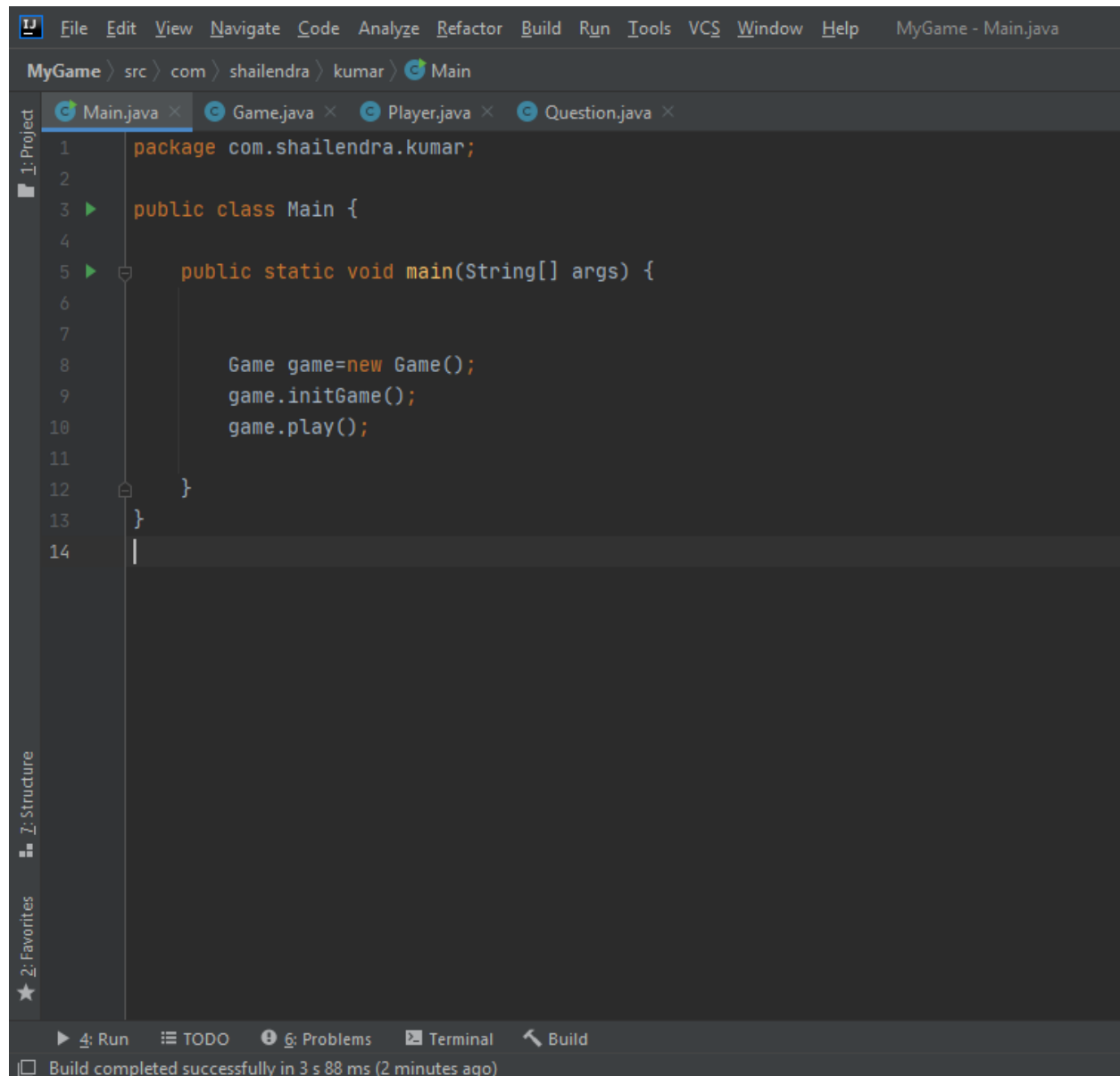


LetsUpgrade Java Essentials Assignment - 4

Questions 1:

Make the complete quiz application on your own.

Answer:



```
1 package com.shailendra.kumar;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7
8         Game game=new Game();
9         game.initGame();
10        game.play();
11
12    }
13 }
14 |
```

The screenshot shows an IDE window titled "MyGame - Main.java". The breadcrumb path is "MyGame > src > com > shailendra > kumar > Main". The file explorer on the left shows the project structure. The code editor displays the following Java code:

```
package com.shailendra.kumar;

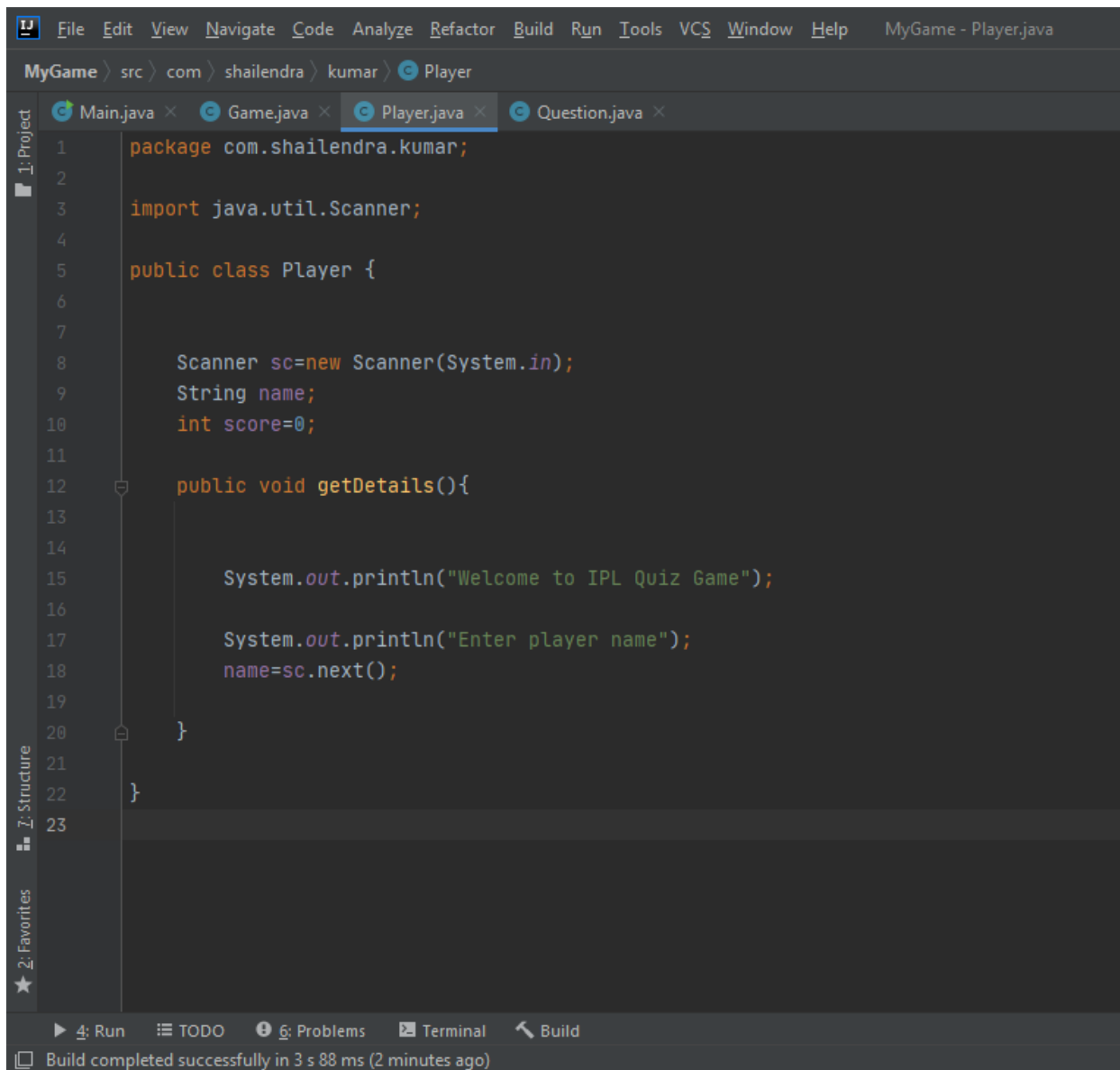
public class Main {

    public static void main(String[] args) {

        Game game=new Game();
        game.initGame();
        game.play();

    }
}
```

The status bar at the bottom indicates "Build completed successfully in 3 s 88 ms (2 minutes ago)".



```
1 package com.shailendra.kumar;
2
3 import java.util.Scanner;
4
5 public class Player {
6
7     Scanner sc=new Scanner(System.in);
8     String name;
9     int score=0;
10
11     public void getDetails(){
12
13         System.out.println("Welcome to IPL Quiz Game");
14
15         System.out.println("Enter player name");
16         name=sc.next();
17     }
18 }
19
20
21
22
23
```

Build completed successfully in 3 s 88 ms (2 minutes ago)

The screenshot shows an IDE window titled "MyGame - Question.java". The menu bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The breadcrumb navigation shows the path: MyGame > src > com > shailendra > kumar > Question. The editor has four tabs: Main.java, Game.java, Player.java, and Question.java (which is active). The code in Question.java is as follows:

```
3  import java.util.Scanner;
4
5  public class Question {
6
7
8      Scanner sc=new Scanner(System.in);
9      String question,option1,option2,option3,option4;
10     int correctAnswer,userAnswer;
11
12     public boolean askQuestion()
13     {
14         System.out.println(question);
15         System.out.println("1. "+option1);
16         System.out.println("2. "+option2);
17         System.out.println("3. "+option3);
18         System.out.println("4. "+option4);
19         System.out.println("please choose an option");
20         userAnswer=sc.nextInt();
21         if(userAnswer==correctAnswer){
22             return true;
23         }
24         return false;
25     }
26 }
27 |
```

The left sidebar contains a "Project" view, a "Structure" view, and a "Favorites" view. The bottom status bar shows icons for Run, TODO, Problems, Terminal, and Build, along with the message: "Build completed successfully in 3 s 88 ms (2 minutes ago)".

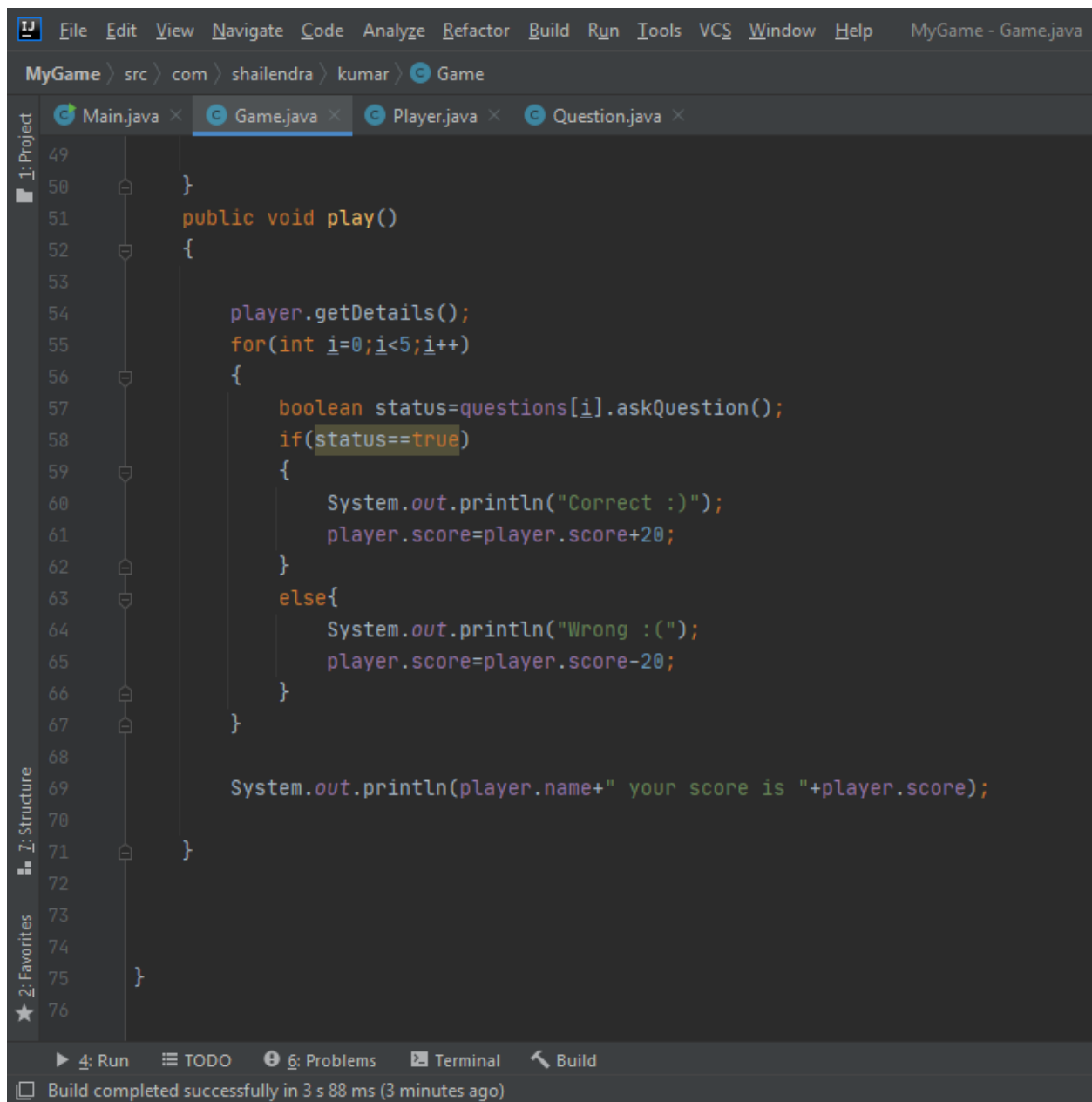
```
1 package com.shailendra.kumar;
2
3 public class Game {
4
5
6     Question[] questions=new Question[5];
7     Player player=new Player();
8
9     public void initGame()
10    {
11        for(int i=0;i<5;i++){
12            questions[i]=new Question();
13        }
14
15        questions[0].question="Which team has played the most IPL finals?";
16        questions[0].option1="Mumbai Indians";
17        questions[0].option2="Royal Challengers Bangalore";
18        questions[0].option3="Kolkata Knight Riders";
19        questions[0].option4="Chennai Super Kings";
20        questions[0].correctAnswer=4;
21
22        questions[1].question="Which player holds the record for the fastest fifty in IPL?";
23        questions[1].option1="KL Rahul";
24        questions[1].option2="Sunil Narine";
25        questions[1].option3="Yuvraj Singh";
26        questions[1].option4="Yusuf Pathan";
27        questions[1].correctAnswer=1;
28
29        questions[2].question="who have struck the most sixes in IPL history?"
```

Build completed successfully in 3 s 88 ms (2 minutes ago)

The screenshot shows an IDE window titled "MyGame - Game.java". The project path is "MyGame > src > com > shailendra > kumar > Game". The editor displays the "Game.java" file with the following code:

```
28
29     questions[2].question="who have struck the most sixes in IPL history?";
30     questions[2].option1="MS Dhoni";
31     questions[2].option2="AB De Villiers";
32     questions[2].option3="Chris Gayle";
33     questions[2].option4="Virat Kohli";
34     questions[2].correctAnswer=3;
35
36     questions[3].question="Which player have most run in IPL?";
37     questions[3].option1="Rohit Sharma";
38     questions[3].option2="Virat Kohli";
39     questions[3].option3="Suresh Raina";
40     questions[3].option4="David Warner";
41     questions[3].correctAnswer=2;
42
43     questions[4].question="Which team has won most IPL titles?";
44     questions[4].option1="Chennai Super Kings";
45     questions[4].option2="Royal Challengers Bangalore";
46     questions[4].option3="Kolkata Knight Riders";
47     questions[4].option4="Mumbai Indians";
48     questions[4].correctAnswer=4;
49
50 }
51 public void play()
52 {
53
54     player.getDetails();
55     for(int i=0;i<5;i++)
56     {
```

The IDE interface includes a menu bar (File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help), a project explorer on the left showing the file structure, and a status bar at the bottom indicating "Build completed successfully in 3 s 88 ms (2 minutes ago)".

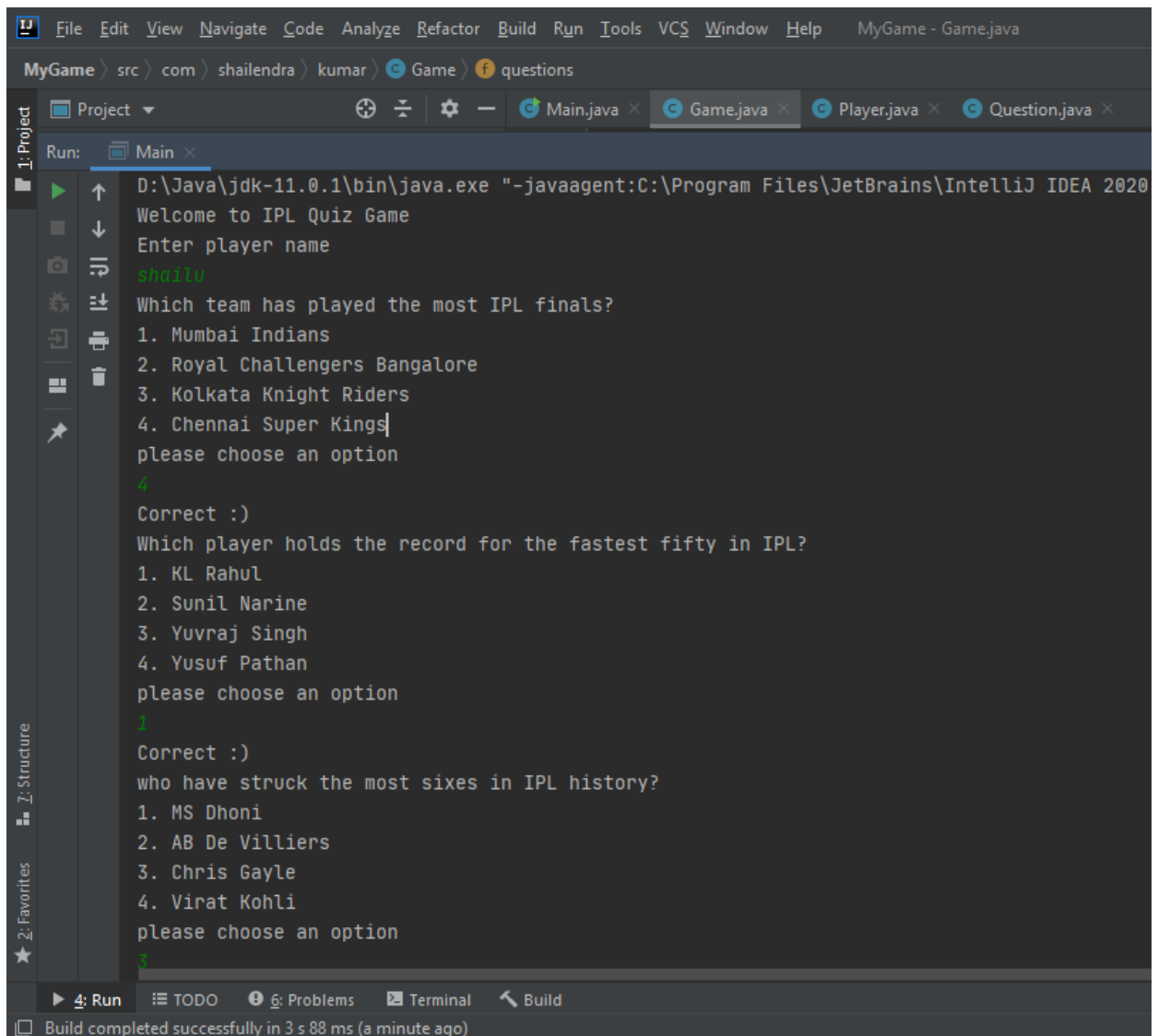


```
MyGame > src > com > shailendra > kumar > Game

Main.java x Game.java x Player.java x Question.java x

49
50     }
51     public void play()
52     {
53
54         player.getDetails();
55         for(int i=0;i<5;i++)
56         {
57             boolean status=questions[i].askQuestion();
58             if(status==true)
59             {
60                 System.out.println("Correct :)");
61                 player.score=player.score+20;
62             }
63             else{
64                 System.out.println("Wrong :(");
65                 player.score=player.score-20;
66             }
67         }
68
69         System.out.println(player.name+" your score is "+player.score);
70     }
71 }
72
73
74
75 }
76

4: Run  TODO  Problems  Terminal  Build
Build completed successfully in 3 s 88 ms (3 minutes ago)
```



```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help MyGame - Game.java
MyGame > src > com > shailendra > kumar > Game > questions
Project Main.java Game.java Player.java Question.java
Run: Main
D:\Java\jdk-11.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020
Welcome to IPL Quiz Game
Enter player name
shailu
Which team has played the most IPL finals?
1. Mumbai Indians
2. Royal Challengers Bangalore
3. Kolkata Knight Riders
4. Chennai Super Kings
please choose an option
4
Correct :)
Which player holds the record for the fastest fifty in IPL?
1. KL Rahul
2. Sunil Narine
3. Yuvraj Singh
4. Yusuf Pathan
please choose an option
1
Correct :)
who have struck the most sixes in IPL history?
1. MS Dhoni
2. AB De Villiers
3. Chris Gayle
4. Virat Kohli
please choose an option
3
Run TODO Problems Terminal Build
Build completed successfully in 3 s 88 ms (a minute ago)
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help MyGame - Game.java
MyGame > src > com > shailendra > kumar > Game > questions
Project Main.java Game.java Player.java Question.java
Run: Main
who have struck the most sixes in IPL history?
1. MS Dhoni
2. AB De Villiers
3. Chris Gayle
4. Virat Kohli
please choose an option
3
Correct :)
Which player have most run in IPL?
1. Rohit Sharma
2. Virat Kohli
3. Suresh Raina
4. David Warner
please choose an option
2
Correct :)
Which team has won most IPL titles?
1. Chennai Super Kings
2. Royal Challengers Bangalore
3. Kolkata Knight Riders
4. Mumbai Indians
please choose an option
4
Correct :)
shailu your score is 100
Process finished with exit code 0
4: Run TODO 6: Problems Terminal Build
Build completed successfully in 3 s 88 ms (2 minutes ago)
```

By Shailendra Kumar

Part of LetsUpgrade Family