

3. In a game, the player's score is calculated as a double value with high precision.

However, for display purposes, you need to show the score as an integer.

Questions:

1. Input:

- o A player's score is 456.89 (stored as a double).

- o You need to cast this score to an integer for display on the leaderboard.

Output:

- o Show how you would cast the score to an integer and what the resulting score would be.

- o Expected Output: The score after type casting to int is 456.

2. Input:

- o Another player's score is 1234.56.

Output:

- o After type casting, the score should be 1234.

- o Discuss how rounding might affect the perception of the score and whether additional logic should be implemented for rounding.

Coding:

```
import java.util.*;
```

```
public class scorecasting{
```

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

```
        Scanner s=new Scanner(System.in);
```

```
        double score1=s.nextDouble();
```

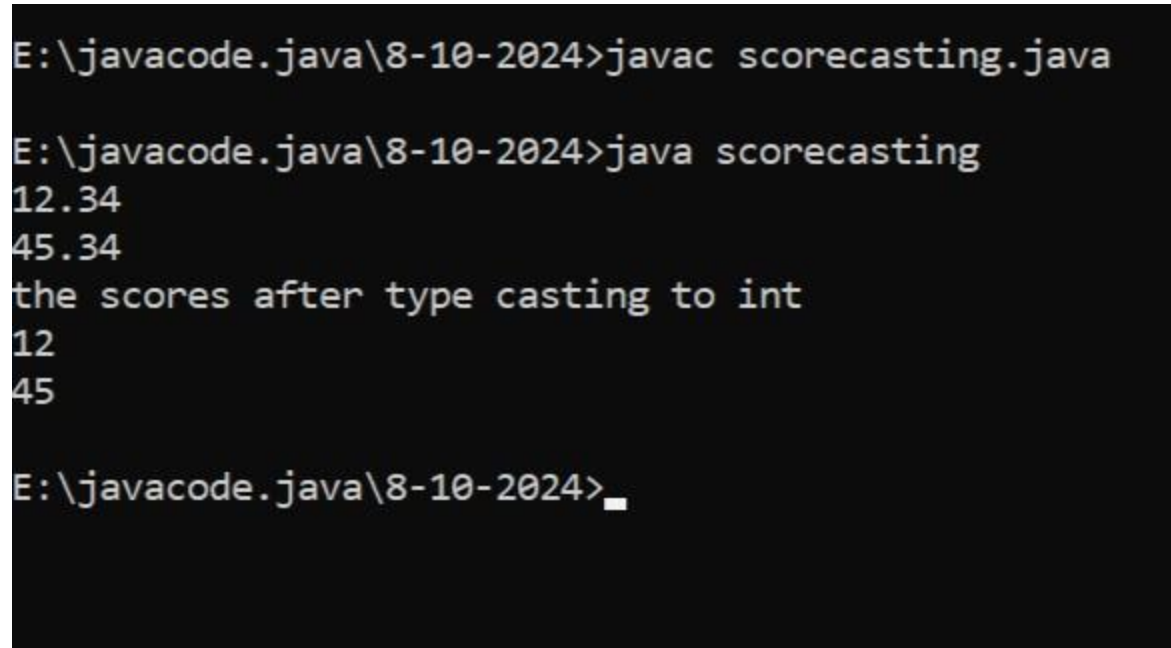
```
        double score2=s.nextDouble();
```

```
        int intscore1=(int)score1;
```

```
        int intscore2=(int)score2;
```

```
System.out.println("the scores after type casting to int " + "\n" + intscore1+"\n" + intscore2);  
}  
}
```

Output:



```
E:\javacode.java\8-10-2024>javac scorecasting.java  
  
E:\javacode.java\8-10-2024>java scorecasting  
12.34  
45.34  
the scores after type casting to int  
12  
45  
  
E:\javacode.java\8-10-2024>_
```

Coding:

```
import java.lang.Math;  
  
import java.util.*;  
  
class scorrounding{  
  
public static void main(String[] args){  
  
Scanner s=new Scanner(System.in);  
  
double score1=s.nextDouble();  
  
int roundedscore1=(int)Math.round(score1);  
  
double score2=s.nextDouble();  
  
int roundedscore2=(int)Math.round(score2);  
  
System.out.println("the score after type casting to int is "+roundedscore1 + "\n" +roundedscore2);
```

```
}
```

```
}
```

Output:

```
E:\javacode.java\8-10-2024>javac scorerounding.java
```

```
E:\javacode.java\8-10-2024>java scorerounding
```

```
324.76
```

```
234.4
```

```
the score after type casting to int is 325
```

```
234
```

```
E:\javacode.java\8-10-2024>
```