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OOP (2CSE303)

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(1)

Given :-

Player	1	2	3	4	5	6	7	8	9	10	11
No. of Runs	40	54	100	79	121	30	12	11	6	99	80

Solⁿcode :-

```

import java.util.Arrays;
public class QuestMs {
    public static void main (String[] args) {
        int [] runs = new int [] {40, 54, 100, 79, 121, 30, 12, 11, 6, 99, 80};
        Arrays.sort (runs);

        int max-length = runs.length;

        System.out.println("Highest runs scored by player is " + runs[max-length-1]);

        System.out.println("Lowest runs scored by player is " + runs[0]);
    }

```

Expected Output :-

Highest runs scored by player is 121.
 Lowest runs scored by player is 6.

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- (2) - The concept of automated memory management in Java is called ~~strong~~ Garbage collection.
- It is process of destroying the unused and unrefered objects.
 - Garbage collection makes java more efficient than other programming. by removing unrefered objects from Heap memory.
 - It is done automatically in Java.
 - Garbage collector is a part of Java virtual machine (JVM).
 - Garbage collector does not work on stack memory. It works on Heap memory.

Eg:-

```
public class Ques2 {  
    public void finalize() {  
        System.out.println("Garbage collected");  
    }  
  
    public static void main (String[] args)  
    {  
        Ques2 s1 = new Ques2();  
        Ques2 s2 = new Ques2();  
  
        s1 = null;  
        s2 = null;  
        System.gc();  
    }  
}
```


Q3

```
import java.util.Scanner;
```

```
public class Question3 {
    public static void main (String[] args)
    {
```

```
        float celsius, kelvin;
        int ch;
```

```
        void System.out.println("\n 1. Celsius to kelvin\n 2. kelvin to Celsius\n\n Enter your choice: ");
```

```
        Scanner sc = new Scanner(System.in);
        ch = sc.nextInt();
```

```
        switch (ch)
        {
```

```
            case '1':
```

```
                System.out.println("\n Enter Celsius value: ");
```

```
                celsius = sc.nextFloat();
```

```
                ConvertToKelvin(celsius);
```

```
                System.out.println("Answer in Kelvin=" +
```

```
                ConvertToKelvin(celsius));
```

```
                exit(0);
```

```
            case '2':
```

```
                System.out.println("\n Enter kelvin value: ");
```

```
                kelvin = sc.nextFloat();
```

```
                System.out.println("\n Answer in Celsius=" +
```

```
                ConvertToCelsius(kelvin));
```

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`exit(0);`

Default :

`System.out.println("Invalid Input");
break;`

}

}

`public static float ConvertToKelvin(float celsius)
{
 return (float)(celsius + 273.15);
}``public static float ConvertToCelsius(float kelvin)
{
 return (float)(kelvin - 273.15);
}``/* end of code */`

⇒ The main method is always considered as static in Java as a static method can be called without creating the object of main method.