# DDR Electronic Management(---RETIRED---)

**Grade settings**: Maximum grade: 100

Disable external file upload, paste and drop external content: Yes

**Based on:** DDR Electronic Management(---RETIRED---)

Run: Yes Evaluate: Yes Automatic grade: Yes

DDR is one of the famous electronic products manufacturing companies. They wanted to choose the batteries for their products based on the watt power. The manager intimates a software developer to help in their process. You being a software developer, develop a Java program based on the requirement.

# **Component Specification: BatteryMain Class**

| Type (Class) | Attributes                        | Methods  |
|--------------|-----------------------------------|--|
| •            | Man <string interger=""></string> | Getter and setter methods for the attribute are included in the code skeleton. |

**Note:** Here the batteryNameMap, holds the Key as batteryName and Value as watt.

## Requirement 1: Find the watt power of the batteryName passed as argument

| Type (Class) | Methods   | Responsibilities   |
|--------------|---|--|
| BatteryMain  | public<br>float <b>findWattPowerBasedOnBatteryName</b> (String batteryName) | This method accepts batteryName as argument. If the batteryName is found in the Map, return their watt power. Else return -1.  Condition: batteryName is case-insensitive. |

### Requirement 2: Find the list of highest watt batteryName and return it.

| Type (Class) | Methods  | Responsibilities   |
|--------------|--|--|
| BatteryMain  | public List <string> findHighestWattBatteries()</string> | This method filters the records and returns the list of battery names which satisfies the requirement.  Condition: If more than one battery has the highest watt those |

|  | batteryNames get added to the list. |
|--|-------------------------------------|
|  |                                     |
|  |                                     |
|  |                                     |

You are provided with the main method as code template and it is excluded from evaluation.

#### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for the classes, attributes, and methods as specified in the question description.
- · Adhere to the code template, if provided.

# Sample Input/Output 1:

Enter number of records to be added:

5

Enter the battery records (Battery Name:Watt(W)):

Hero Cell:30

**Bull Cell:40** 

Ivp Cell:70

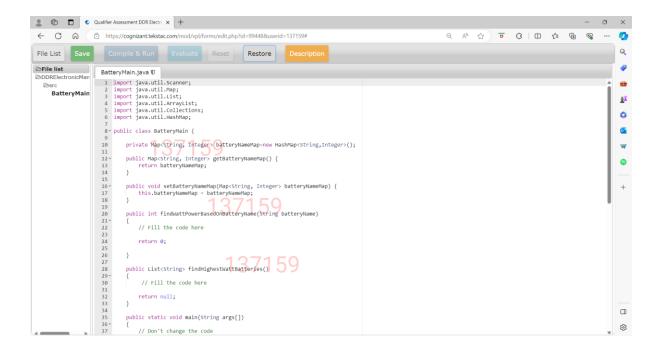
Tvp Cell:20

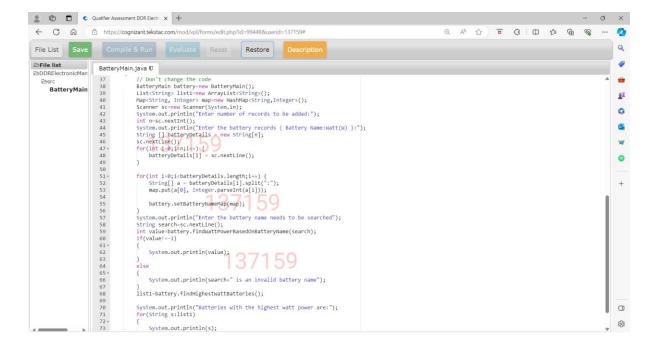
**Netron Cell:70** 

Enter the battery name needs to be searched

Hero Cell

The watt power of the battery Hero Cell is 30 Batteries with the highest watt power are: Netron Cell Ivp Cell Sample Input/Output 2: Enter number of records to be added: 3 Enter the battery records (Battery Name:Watt(W)): Bunsen cell:60 ClarkCell:40 DryCell:50 Enter the battery name needs to be searched Dsv Cell Dsv Cell is an invalid battery name Batteries with the highest watt power are: Bunsen cell





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2 Qualifier Assessment DDR Electro x
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                                        Evaluate Reset Restore Description
 File List Save
•
                                                                                                                                                                               Ģ
                                                                                                                                                                               0
                               for(int i=0; kbatteryDetails.length; i++) {
   String[] a = batteryDetails[i].split(":");
   map.put(a[0], Integer.parseInt(a[1]));
                                                                                                                                                                               battery.setBatteryNameMap(map);
                                pattery.setsatterynamenap(map);
System.out.println("Enter the battery name needs to be searched");
String search-sc.nextLine();
int value-battery.findwatteowersasedonBatteryName(search);
if(value|--1)
{
                                   System.out.println(value);
                               System.out.println("Batteries with the highest watt power are:"); for(String s:list1) \,
                                   System.out.println(s);
                                                                                                                                                                               (3)
```