

# Evaluation C1:SB101

## Note

There are a total of 3 questions.

All the questions are compulsory.

Duration of the test is 1.5 hours.

Mode of Submission: Github Link

**Don't seek help from any person/resource during the test.**

Marks Distribution is as follows:

Question No:	Marks
1	3 marks
2	5 marks
3	2 marks

## Question 1

Create a Employee bean class with following fields:

- empld
- name
- address

create a Map as

- key: Employee
- Value: Integer (Salary of Employee)

Sort Map in Alphabetical order of Employee Name by using TreeMap and implementing Comparable interface, where key is customObject/Employee type in java.

## Question 2

- Create a class Mobile with the following field:

```
HashMap<String,ArrayList<String>> mobiles = new HashMap<>();
```

- Implement the following methods inside the Mobile class:

```
public String addMobile(String company, String model)
```

- This method will take a string as a company name and its model as an argument.
- Ex: "apple", "Iphone13"
- add the company as key and its model as an element of ArrayList in the above //mobiles HashMap.
- if the company name already exists then their model should be added to the existing list.
- This method should return a message "Mobile added successfully" after adding a mobile.

```
public List<String> getModels(String company)throws InvalidMobileException
```

This method return the list of all the models of the supplied company

If we supply any invalid company name then it should throw a checked exception

- Inside the main method of the Mobile class perform the following task:

→ Call the addMobile method by adding some mobiles with their details

→ Call the getModels method and print the list of the models of the supplied company.

★ Note: Application should be terminated normally.

### **Question 3**

Explain upper bounded wildcards and lower bounded wildcards with an example.