

# Coding Activity: Bake Me A Wish

Description      Submission      Code Editor      Grading view

Bake Me A Wish is a famous Cake shop across the city. They wanted to get the order details based on the cake cost. The manager intimates a software developer to help in their process. You are being the software developer, developing a Java program based on the requirement.

## Component Specification: CakeOrder Class (Class)

Type (Class)	Attributes	Methods
CakeOrder	private Map<String, Double> orderMap	Getters and setters methods for the attribute are included in the code skeleton.

*Note: Here the orderMap, holds the Key as orderId and Value as cakeCost.*

Requirement 1: Add the cake order details to the orderMap.

Type	Methods	Responsibilities
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**Requirement 1: Add the cake order details to the orderMap.**

Type (Class)	Methods	Responsibilities
CakeOrder	public void addOrderDetails(String orderId, double cakeCost)	This method accepts orderId and cakeCost as the input parameters. It should add these details to the orderMap.

**Requirement 2: Filter the orders based on the cake cost and return the Map.**

Type (Class)	Methods	Responsibilities
CakeOrder	public Map<String, Double> findOrdersAboveSpecifiedCost(double cakeCost)	This method accepts cakeCost as the input parameter. It filters the cake orders above the specified cakeCost and return the Map of cake order details.

In the main method of the UserInterface class, the program should first get the number of orders from the user, then prompt for the order details, invoke the addOrderDetails method to pass and store them. It should then ask the user for a cake cost to search for orders above that specified cost, invoke the findOrdersAboveSpecifiedCost method by passing the cakeCost as input parameter. If no cake orders found above the specified cost, print as "No cake orders found", else display the cake orders as shown in the sample output.



**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.
- Please do not use `System.exit(x)` to terminate the code.

**Sample Input/Output 1:**

Enter number of cake orders to be added

5

Enter the cake order details (Order Id: CakeCost)

**ORDER142:780**

**ORDER353:190**

**ORDER937:780**

**ORDER829:560**

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**Sample Input/Output 1:**

Enter number of cake orders to be added

5

Enter the cake order details (Order Id: CakeCost)

ORDER142:780

ORDER353:190

ORDER937:780

ORDER829:560

ORDER459:700

Enter the cost to search the cake orders

600

Cake Orders above the specified cost

Order ID: ORDER142, Cake Cost: 780.0

Order ID: ORDER937, Cake Cost: 780.0

Order ID: ORDER459, Cake Cost: 700.0

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Order ID: ORDER142, Cake Cost: 780.0

Order ID: ORDER937, Cake Cost: 780.0

Order ID: ORDER459, Cake Cost: 700.0

### Sample Input/Output 2:

Enter number of cake orders to be added

2

Enter the cake order details (Order Id: CakeCost)

ORDER203:120

ORDER990:300

Enter the cost to search the cake orders

300

No cake orders found



DNA Worldwide is a well-known forensic lab across the United States. They wanted to get the forensic report details based on the report filed to date. The manager intimates a software developer to help in their process. You are being the software developer, developing a Java program based on the requirement.

Component Specification: ForensicReport Class

Type (Class)	Attributes	Methods
ForensicReport	private Map<String, Date> reportMap	Getter and setter methods for the attribute are included in the code skeleton.

Note: Here the reportMap , holds the Key as reportingOfficerName and value as reportFiledDate.

Requirement 1: Add the report details to the reportMap.

Type (Class)	Methods	Responsibilities
ForensicReport	public void addReportDetails(String reportingOfficerName, Date reportFiledDate)	This method accepts reportingOfficer and reportFiledDate as an argument. It should add these details to the reportMap.

Requirement 2: Filter the report officers based on the reportFiledDate.

## Requirement 2: Filter the report officers based on the reportFiledDate.

Type (Class)	Methods	Responsibilities
ForensicReport	public List<String> getOfficersWhoFiledReportsOnDate(Date reportFiledDate)	This method takes reportFiledDate as an input parameter, filters the reports, and returns a list of reporting officer names who filed reports on the given date.

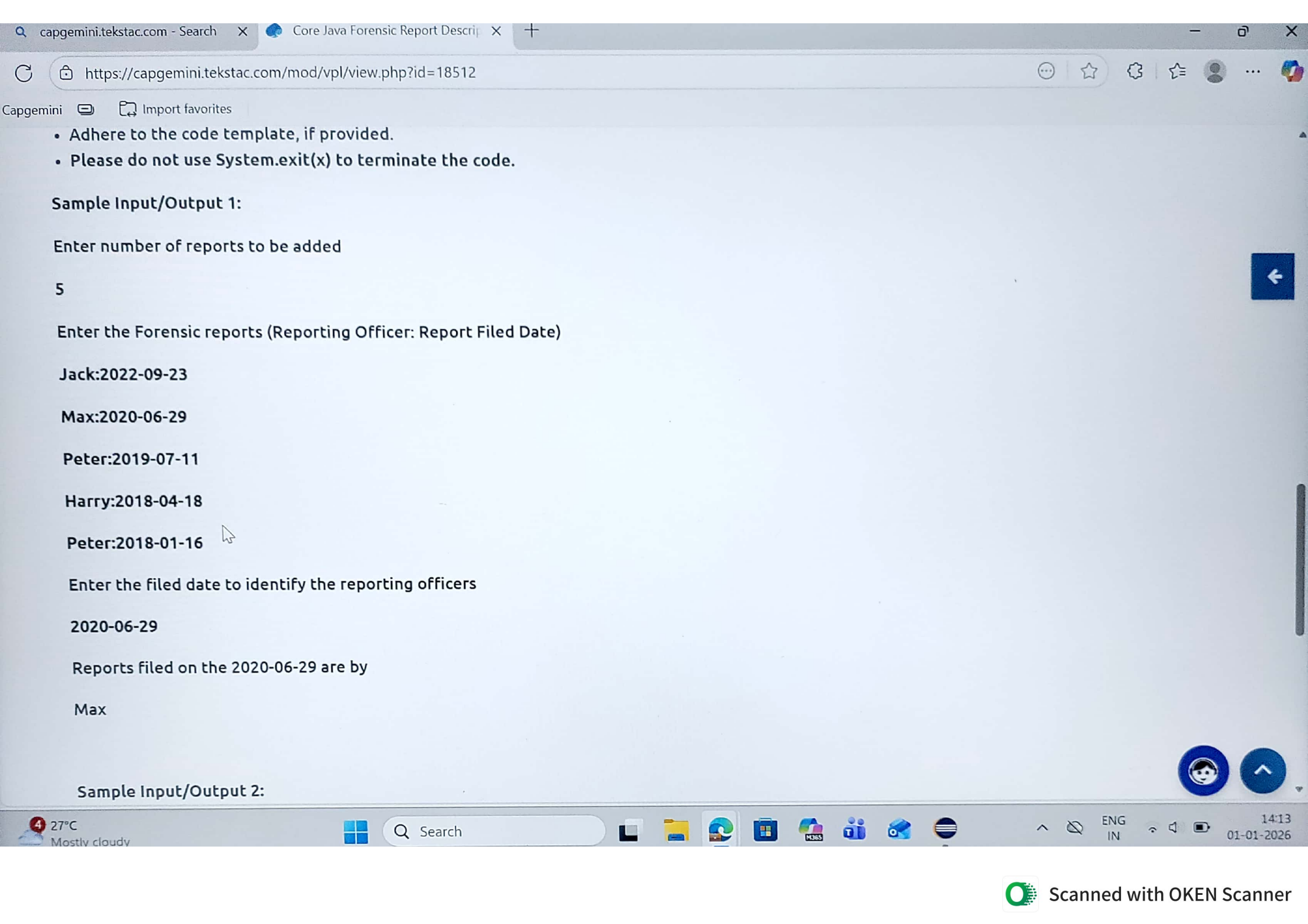
In the main method of the `UserInterface` class, first obtain the number of reports from the user, then prompt for the report details. Use the `addReportDetails` method to pass the report details and store them in the `reportMap`. Next, get the `reportFiledDate` from the user to search for reports on the specified date, and invoke the `getOfficersWhoFiledReportsOnDate` method with the `reportFiledDate`. If no reporting officers' names are available, print "No reporting officer filed the report"; otherwise, print the officers' names as shown in the sample output.

### Note:

- Date format has to be (yyyy-MM-dd).
- 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.
- Please do not use `System.exit(x)` to terminate the code.

Sample Input/Output 1:





- Adhere to the code template, if provided.
- Please do not use `System.exit(x)` to terminate the code.

#### Sample Input/Output 1:

Enter number of reports to be added

5

Enter the Forensic reports (Reporting Officer: Report Filed Date)

Jack:2022-09-23

Max:2020-06-29

Peter:2019-07-11

Harry:2018-04-18

Peter:2018-01-16

Enter the filed date to identify the reporting officers

2020-06-29

Reports filed on the 2020-06-29 are by

Max

#### Sample Input/Output 2:



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Reports filed on the 2020-06-29 are by

Max

Sample Input/Output 2:

Enter number of reports to be added

2

Enter the Forensic reports (Reporting Officer: Report Filed Date)

Harry:2018-04-18

Peter:2018-01-16

Enter the filed date to identify the reporting officers

2016-12-29

No reporting officer filed the report

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# Coding Activity: Heaven Homes

Description

Submission

Code Editor

Grading view

Heaven Homes is a famous Apartment across the city. They wanted to get the Apartment details based on the rent of the apartment. The manager intimates a software developer to help in their process. You are being the software developer, developing a Java program based on the requirement.

## Component Specification: Apartment Class (Model Class)

Type (Class)	Attributes	Methods
Apartment	private Map<String, Double> apartmentDetailsMap	Getters and setters methods for the attribute are included in the code skeleton.

*Note: Here the apartmentDetailsMap, holds the Key as apartmentNumber and Value as rent.*

Requirement 1: Add the apartment details to the apartmentDetailsMap.

Type		
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**Requirement 1: Add the apartment details to the apartmentDetailsMap.**

Type (Class)	Methods	Responsibilities
Apartment	public void addApartmentDetails(String apartmentNumber, double rent)	This method accepts two parameters, <b>apartmentNumber</b> and <b>rent</b> . It should add the apartment details to the <b>apartmentDetailsMap</b> .

**Requirement 2: Filter the apartments based on the minimumRent and maximumRent and calculate the sum of the apartment rents in that range.**

Type (Class)	Methods	Responsibilities
Apartment	public double findTotalRentOfApartmentsInTheGivenRange(double minimumRent, double maximumRent)	This method accepts two parameters, <b>minimumRent</b> and the <b>maximumRent</b> . It filters and calculates the sum of the apartment rents within the specified range (both inclusive) and returns the result else returns 0.



apartment rents within the specified range (double minimumRent, double maximumRent)

apartment rents within the specified range (both inclusive) and returns the result else returns 0.

In the main method of the `UserInterface` class, first obtain the number of apartment details from the user. Then prompt for apartment details and store these details by invoking the `addApartmentDetails` method. Next, prompt the user for a rent range, invoke the `findTotalRentOfApartmentsInTheGivenRange` method by passing the rent range, and display the total rent amount calculated within the specified range as shown in the sample output.

#### 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 details to be added

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- 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 details to be added

4

Enter the details (Apartment number: Rent)

A389:7500

B468:8000

C329:22000

B238:5600

Enter the range to filter the details

7500

22000

Total Rent in the range 7500.0 to 22000.0 USD:37500.0

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Enter the range to filter the details

7500

22000

Total Rent in the range 7500.0 to 22000.0 USD:37500.0

Sample Input/Output 2:

Enter number of details to be added

2

Enter the details (Apartment number: Rent)

C902:4500

G236:9000

Enter the range to filter the details

11000

17000

No apartments found in this range

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