Mid-Term Examinations – April 2023			
Programme	: **B.Tech**	Semester	: **Summer 2022-23**
Course	: **Introduction to Problem Solving and Programming / CSE1021**	Slot/ Class No.	: **C11-C17**
Time	: **1 ½ hours**	Max. Marks	: **50**

Answer all the Questions

Q.No.	Question Description	Marks
1	Prepare an algorithm for identifying a student in the class of 100 students. Use appropriate variables and naming with justification.	**10**
2	Understand the below given flowchart for customer support system. Answer the questions.	**10**
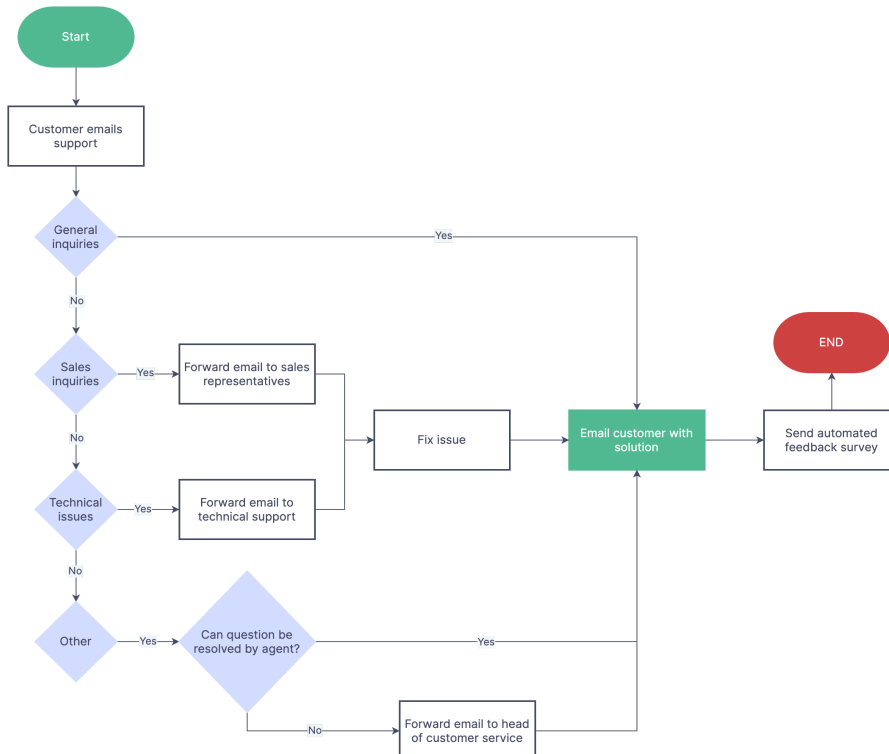
How many different types of queries are in the process?
The feedback survey will be done by all the customers or not?
Modify the flowchart to get the customers choice to provide the feedback, if it is done by all the customers by default.

3   Modify the flowchart to fix the issue based feasibility. If not feasible, they can direct the query to Head of Customer Service.

Inspect the following python code and answer the questions.

```
for i in range(1,10):
    for j in range(2,7):
        print(j+1)
```

How many different values of j will be printed?

How many times each j value will be printed?

Modify the code to print j values from 20 to 24 & each value printed for 10 time.   **10**

4   What are the immutable data types in Python? Exemplify how the immutable property is being implemented in python.   **10**

5   Provide any five situations where the python tuples could be used with proper examples.   **10**

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