

## LP II Artificial Intelligence

### Practical No 5

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**Problem Statement:** Develop an elementary chatbot for any suitable customer interaction application.

**Solution:**

#### Elementary Chatbot:

An elementary chatbot is a simple, rule-based program that interacts with users by recognizing specific keywords or phrases and responding with predefined answers. It does not use artificial intelligence or machine learning, but still helps in automating basic customer service interactions.

#### Characteristics of an Elementary Chatbot:

- No learning ability
- Uses if-else or switch conditions
- Based on static rules and patterns
- Ideal for simple FAQ-type customer support

#### Program in Java:

```
import java.util.Scanner;

public class ElementaryChatBot {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
```

```
System.out.println("Welcome to EduBot - Your  
Admission Assistant!");
```

```
System.out.println("Type 'exit' anytime to end the  
conversation.\n");
```

```
while (true) {
```

```
    System.out.print("You: ");
```

```
    String input = scanner.nextLine().toLowerCase();
```

```
        if (input.contains("exit") ||  
input.contains("bye")) {
```

```
            System.out.println("EduBot: Thank you for  
your interest! All the best for your future!");
```

```
            break;
```

```
        } else if (input.contains("courses") ||  
input.contains("programs") || input.contains("offer")) {
```

```
            System.out.println("EduBot: We offer B.Tech,  
BBA, BCA, MBA, and M.Tech programs.");
```

```
        } else if (input.contains("admission") ||  
input.contains("process") || input.contains("apply")) {
```

```
            System.out.println("EduBot: You can apply  
online through our official website. The process includes  
registration, document upload, and payment of application  
fees.");
```

```
        } else if (input.contains("eligibility") ||  
input.contains("criteria")) {
```

```
    System.out.println("EduBot: For undergraduate courses, you  
need a minimum of 50% in 12th standard. For postgraduate, a  
relevant bachelor's degree is required.");
```

```
        } else if (input.contains("fees") ||  
input.contains("fee structure") ||  
input.contains("tuition")) {
```

```
    System.out.println("EduBot: The fee varies  
by course. For B.Tech, it's ₹1,00,000 per year. You can find  
full details on our website.");
```

```
        } else if (input.contains("contact") ||  
input.contains("phone") || input.contains("email")) {
```

```
    System.out.println("EduBot: You can contact  
us at +91-9111333322 or email  
admissions@xyzuniversity.ac.in");
```

```
    } else {
```

```
        System.out.println("EduBot: I'm sorry, I  
didn't understand that. Could you please rephrase?");
```

```
    }
```

```
}
```

```
scanner.close();
```

```
}
```

```
}
```

Output:

Welcome to EduBot - Your Admission Assistant!

Type 'exit' anytime to end the conversation.

You: what courses do you offer?

EduBot: We offer B.Tech, BBA, BCA, MBA, and M.Tech programs.

You: what is the fee

EduBot: I'm sorry, I didn't understand that. Could you please rephrase?

You: what is the fees for B.Tech

EduBot: The fee varies by course. For B.Tech, it's ₹1,00,000 per year. You can find full details on our website.

You: exit

EduBot: Thank you for your interest! All the best for your future!

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