

# Lab-3

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```
1 // Implement the concept of Nested class, Inner Class, String class
   & String
2 // Buffer Class in a single program based on your domain.
3
4 // 1.Since String is immutable in Java, whenever we do String
   manipulation like concatenation, substring, etc. it generates a
   new String and discards the older String for garbage collection.
5
6 class Guild {
7     public String botName;
8     protected String discordToken;
9
10    Guild(String botName, String discordToken) {
11        if (discordToken.isEmpty()) {
12            System.out.println("Token not found");
13        }
14        this.botName = botName;
15        this.discordToken = discordToken;
16    }
17
18    public void showBotDetails() {
19        System.out.println("Discord Bot with " + botName + " created
20        in your account");
21    }
22
23    public void createGuild(String guildName) {
24        System.out.println("Created a guild " + guildName + "
25        associated to the bot");
26    }
27
28    public void getBotPermission(int permission) {
29        boolean isAdmin = true;
30        boolean isMod = true;
31        boolean BAN_MEMBERS = true;
32        boolean KICK_MEMBERS = true;
33        if (permission == 0) {
```

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33         System.out.println("The Bot created has 0 permission");
34     }
35     if (isAdmin && isMod && BAN_MEMBERS && KICK_MEMBERS) {
36         System.out.println("The Bot is set full permission");
37     }
38
39 }
40
41 public void showBotDetails(String clientName) {
42     System.out.println("Discord Bot with " + botName + " created
43         for client" + clientName);
44 }
45
46 class SlashCommands { // inner class
47     public void getMembers() {
48         System.out.println("Getting members of the text channel");
49         System.out.println("Channel members are : Elumeveguy\n" +
50             //
51             "Emojorekes\n" + //
52             "Eroxihisom\n" + //
53             "Ulelabutuk\n" + //
54             "Ayibiciqeb\n" + //
55             "Oguyocuxas\n" + //
56             "Uxibabujen\n" + //
57             "Epiwimaguk\n" + //
58             "Idenefibiy\n" + //
59             "Amarebamat");
60     }
61
62     public void slashCommand(StringBuffer user) {
63         // String command='ban';
64         System.out.println("Ban User ");
65         System.out.println("user " + user + " is banned");
66     }
67 }
68
69 static class Client { // nested class
70     public String name;
71     public String discordServer;
72
73     public void getClient(String name, String discordServer) {
74         this.name = name;
75         this.discordServer = discordServer;
76     }
77
78     public void getBotDetails() {
79         System.out.println("your account name is " + name);
80         System.out.println("your Discord server name is " +

```

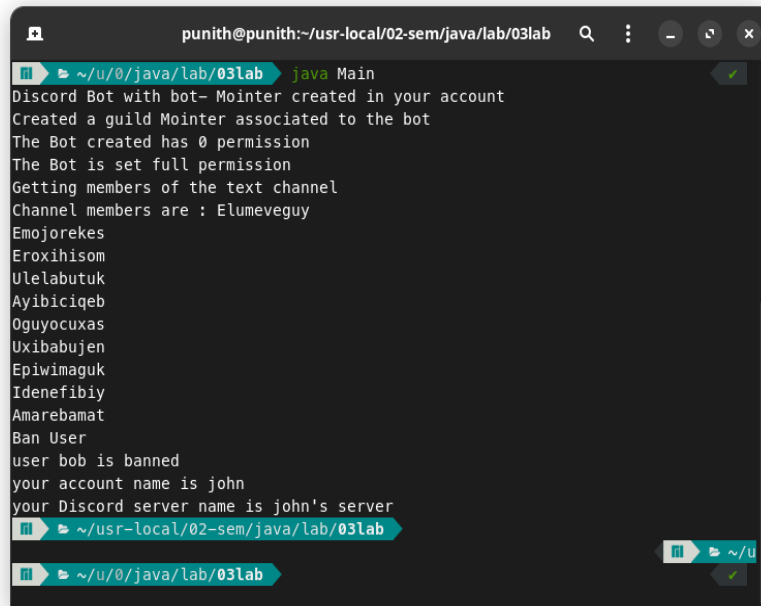
```

        discordServer);
81
82     }
83 }
84
85 }
86
87 class Main {
88     public static void main(String args[]) {
89         StringBuffer bf = new StringBuffer("bob");
90         Guild build = new Guild("bot- Mointer", "3836958915");
91         build.showBotDetails();
92         build.createGuild("Mointer");
93         build.getBotPermission(0);
94
95         Guild.SlashCommands sl = build.new SlashCommands();
96         sl.getMembers();
97         sl.slashCommand(bf);
98
99         Guild.Client client;
100        client = new Guild.Client();
101        client.getClient("john", "john's server");
102        client.getBotDetails();
103
104    }
105 }

```

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## Output

A terminal window titled 'punith@punith:~/usr-local/02-sem/java/lab/03lab' with search, menu, and window control icons. The prompt is '~ /u/0/java/lab/03lab' and the command 'java Main' has been executed. The output shows the creation of a Discord bot named 'bot-Mointer', the creation of a guild named 'Mointer', and a list of channel members. It also shows a ban for user 'bob' and the user's account name 'john'.

```
punith@punith:~/usr-local/02-sem/java/lab/03lab
~/u/0/java/lab/03lab java Main
Discord Bot with bot- Mointer created in your account
Created a guild Mointer associated to the bot
The Bot created has 0 permission
The Bot is set full permission
Getting members of the text channel
Channel members are : Elumeveguy
Emojorekes
Eroxihisom
Ulelabutuk
Ayibiciqeb
Oguyocuxas
Uxibabujen
Epiwimaguk
Idenefibiy
Amarebamat
Ban User
user bob is banned
your account name is john
your Discord server name is john's server
~/usr-local/02-sem/java/lab/03lab
~/u/0/java/lab/03lab
```