

## Slip No. 22 (Total Marks: 30)

1.

```
java
Copy code
import java.util.function.Function;

public class Cube {
    public static void main(String[] args) {
        Function<Integer, Integer> cubFunction = (n) -> n * n * n;

        int n = 5;
        int cube = cubFunction.apply(n);
        System.out.println("The cube of " + n + " is: " + cube);
    }
}
```

2.

```
java
Copy code
import java.io.*;

class InvalidUsernameException extends Exception {
    public InvalidUsernameException(String message) {
        super(message);
    }
}

class InvalidPasswordException extends Exception {
    public InvalidPasswordException(String message) {
        super(message);
    }
}

class EmailId {
    String username, password;

    public EmailId(String username, String password) {
        this.username = username;
        this.password = password;
    }

    public static void main(String[] args) throws InvalidUsernameException,
InvalidPasswordException {
        if (args.length != 2) {
            System.out.println("Please provide a username and password as
command line arguments.");
            return;
        }

        String username = args[0];
        String password = args[1];
    }
}
```

```
        if (!username.matches("^[a-zA-Z0-9._-]{3,}$")) {  
            throw new InvalidUsernameException("Invalid Username");  
        }  
  
        if (password.length() < 6) {  
            throw new InvalidPasswordException("Invalid Password");  
        }  
  
        System.out.println("Valid Username and Password");  
    }  
}
```