

AD: IT-22051

```
import java.util.Scanner;

public class StudentValidation {
    static class AgeException extends Exception {
        public AgeException(int age) {
            super("Invalid Age: " + age + ". Age must be between 18 and 30");
        }
    }

    static class DeptException extends Exception {
        public DeptException(String dept) {
            super("Invalid Department: " + dept + ". Must be one of [CSE, ICT, ECE, TEX]");
        }
    }

    public static void validateStudent(int age, String dept)
        throws AgeException, DeptException {
        if (age < 18 || age > 30) {
            throw new AgeException(age);
        }

        String[] validDepts = {"CSE", "ICT", "ECE", "TEX"};
        boolean isValidDept = false;
        for (String valid : validDepts) {
```



```
if (valid.equalsIgnoreCase(dept)) {
```

```
    isValidDept = true;
```

```
    break;
```

```
}
```

```
if (!isValidDept) {
```

```
    throw new DeptException(dept);
```

```
}
```

```
public static void main(String[] args) {
```

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

```
    try {
```

```
        System.out.println("Enter age: ");
```

```
        int age = scanner.nextInt();
```

```
        System.out.println("Enter department");
```

```
        String dept = scanner.nextLine().trim();
```

```
        ValidateStudent(age, dept);
```

```
        System.out.println("Validation successful");
```

```
    }
```



