

## OOP LAB # 01

### Exercise A: Explore the editors used for java programming.

**Ans.** As there are many editors for java programming but three most popular and powerful editors are listed below:

1. Eclipse
2. NetBeans
3. IntelliJ IDEA

#### 1. Eclipse:

Eclipse is an open source integrated development environment (IDE) whose primary target language is Java. It includes a syntax-directed (smart) editor for Java and automatically compiles Java classes. It is also, possible to integrate other tools into Eclipse.

##### Features:

- A runtime core,
- A collection of libraries,
- A modelling and control language,
- A development environment,
- interfaces for embedding into host environments,
- interfaces to third-party solvers

#### 2. NetBeans:

NetBeans is an open-source project dedicated to providing rock solid software development products (the NetBeans IDE and the NetBeans Platform) that address the needs of developers, users and the businesses who rely on NetBeans as a basis for their products; particularly, to enable them to develop these products quickly, efficiently and easily by leveraging the strengths of the Java platform and other relevant industry standards.

##### Features:

- Cross-platform support
- Multiple language support
- Visual debugger
- NetBeans Profiler
- Static analysis tools
- Project management
- Code editor
- Batch code analyzers
- Code converters

#### 3. IntelliJ IDEA:

IntelliJ is one of the most powerful and popular Integrated Development Environments (IDE) for Java. It is developed and maintained by JetBrains and available as community and ultimate edition. This feature rich IDE enables rapid development and helps in improving code quality.

##### Features:

- Smart completion
- Chain completion
- Static members completion
- Data flow analysis
- Language injection
- Cross-language refactoring's
- Detecting duplicates
- Inspections and quick-fixes

**Exercise B: Write a program to print your name and section in your choice of editor of java.**

**Source code:**

```
public class BioData {  
  
    public static void main (String[] args){  
        System.out.print("Name:\t Ahmad Baseer\n ");  
        System.out.println("Department:\t Computer Engineering ");  
        System.out.print("Section:\t C\n ");  
        System.out.printf("Roll no:\t 124\n ");  
    }  
}
```

**Output:**

```
Name:    Ahmad Baseer  
Department:    Computer Engineering  
Section:  C  
Roll no:  124
```