

In order to use NetBeans you have to have java JDK.

To check if you have java jdk installed or not open your command prompt and then type

Javac –version

```
C:\Users\Goutham>javac --version  
javac 23.0.1
```

You have to get something like this, if not then it is not installed.

Install the jdk:

[https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe \(sha256\)](https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256))

this link is of JDK21, you can download any version of your choice

Youtube link:

<https://youtu.be/3qC3MdyyXeY>

after installing java jdk, then install netbeans,

<https://netbeans.apache.org/front/main/download/nb25/>

Note: if you have java version below 20, then install netbeans of version below 20.

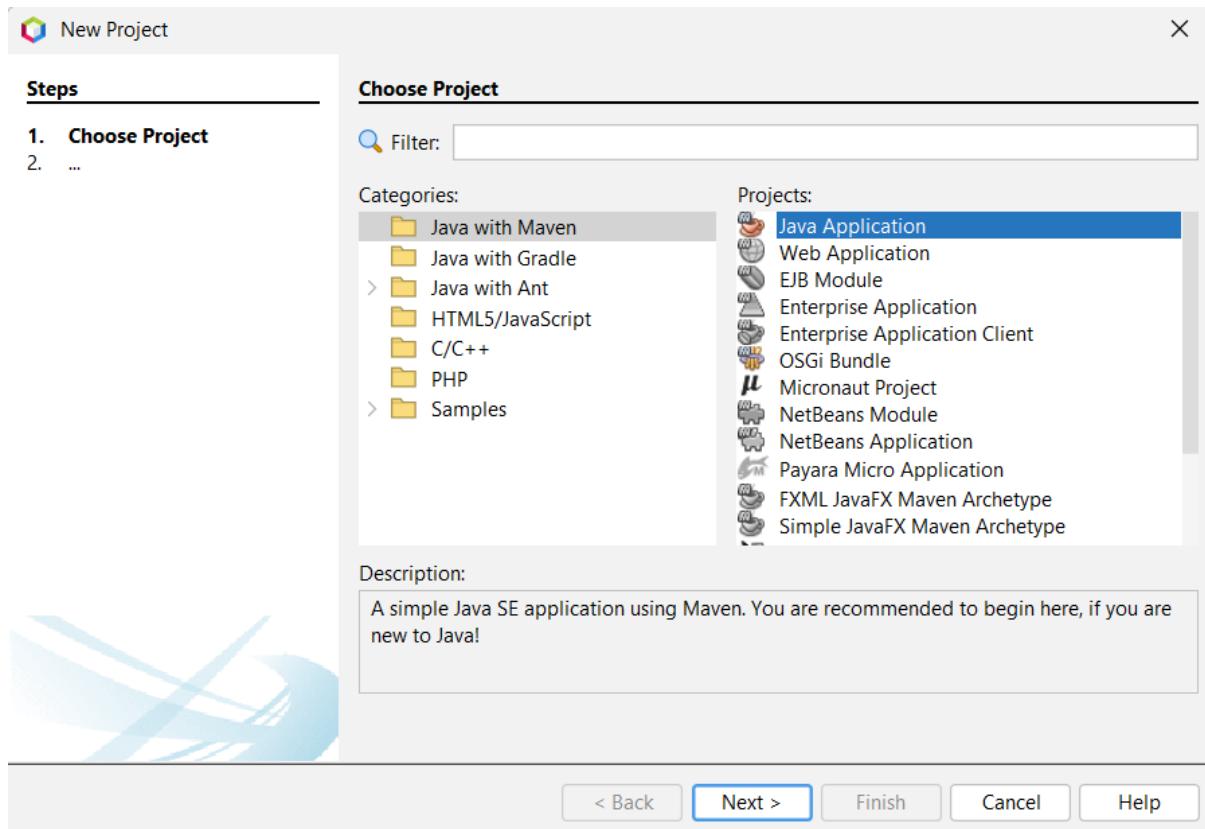
Now I have java version of 23, im installing netbeans of 23, otherwise netbeans wont open

Youtube link:

<https://youtu.be/qOyIPeG2FXw?si=bDGZNmUA5cMMjRCi>

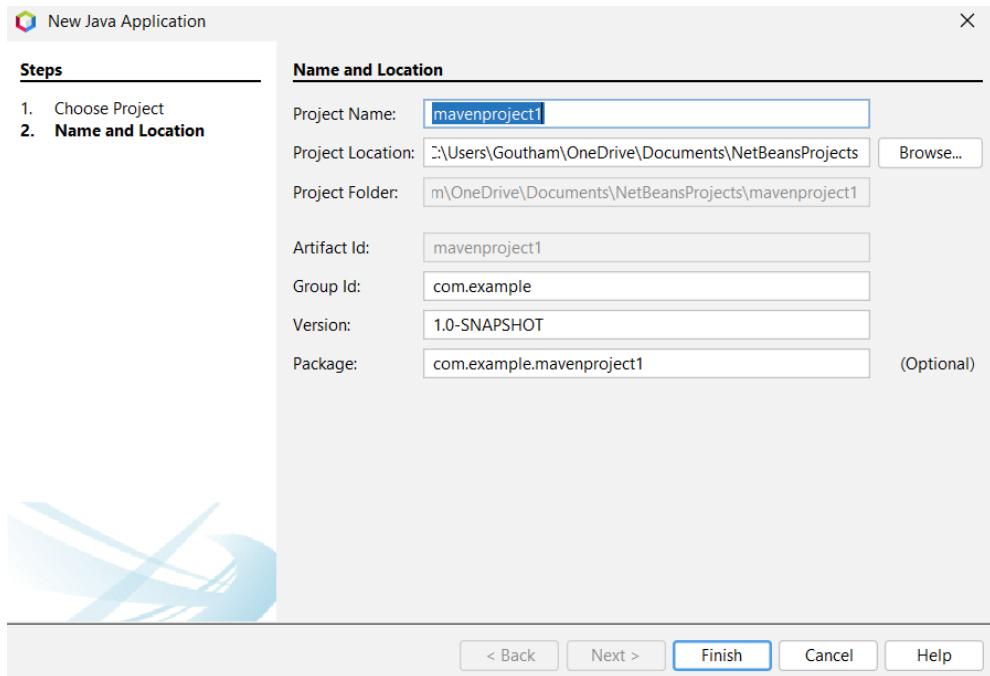
Creating simple project in netbeans

File->new project

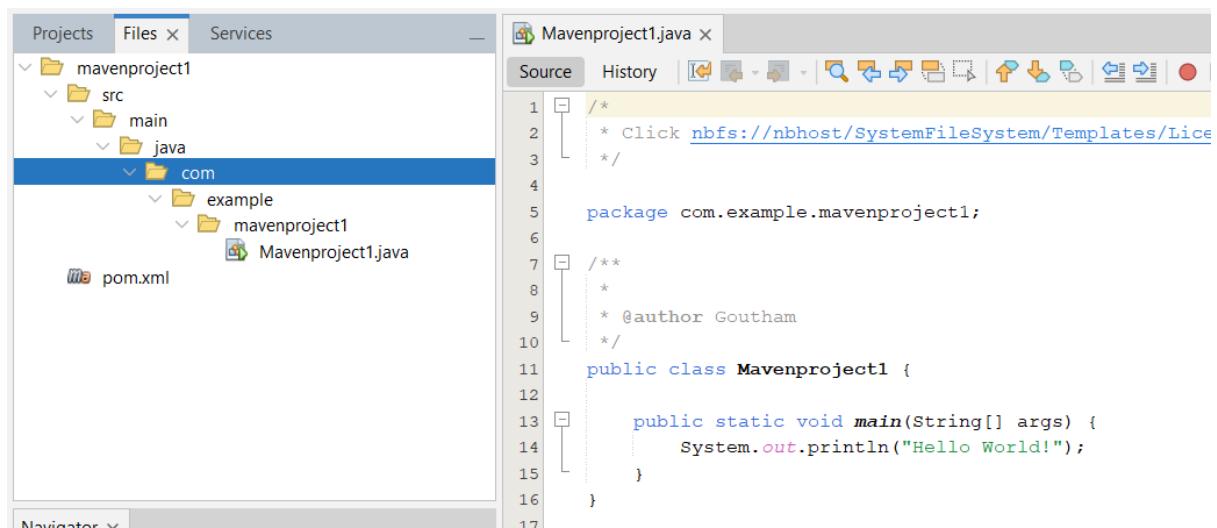


In college you will get java->java application. Since its is old version of netbeans

Change the project name of your wish also select folder to save

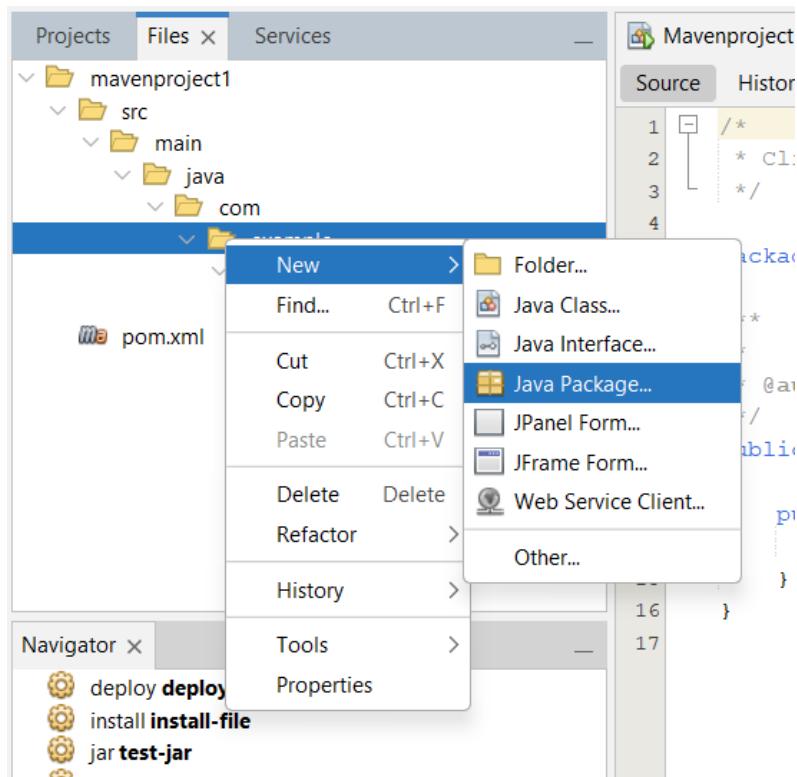


You will get something like this



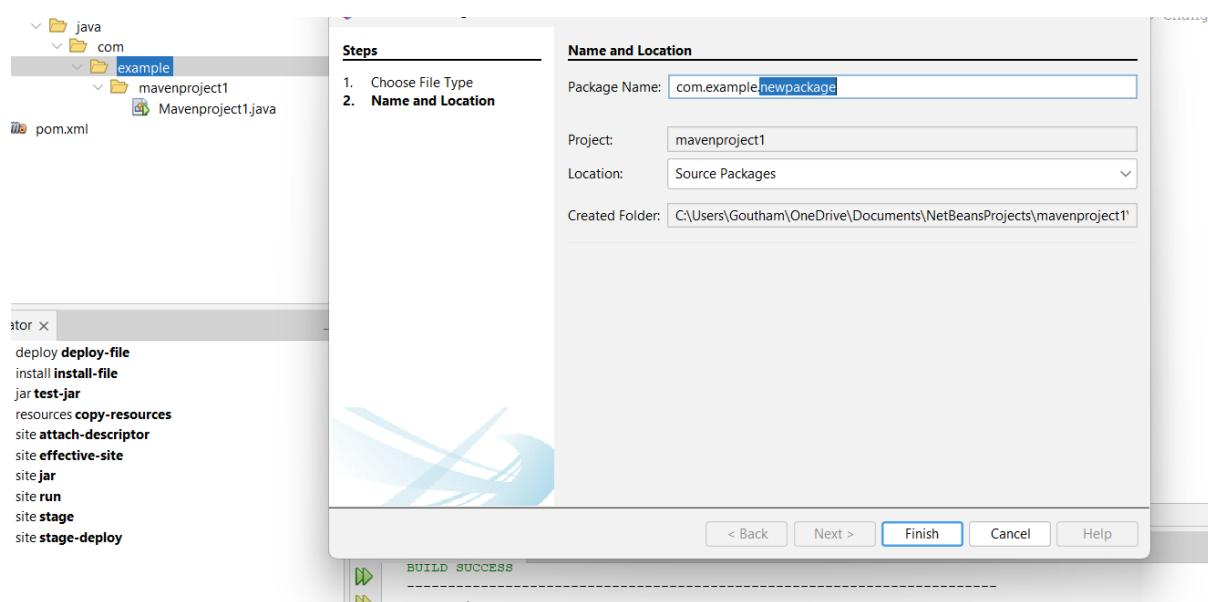
The folder structure may vary.

Note: keep view in Files tab. You can create new package either inside example or mavenproject1. You cannot create it inside java directly.

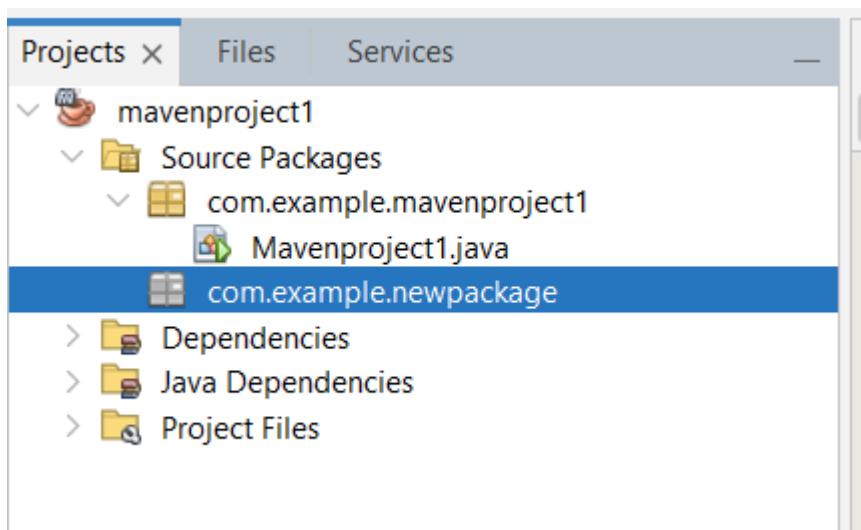


In order to create new package or interface or class, just right click on folder name->new then select according to your choice

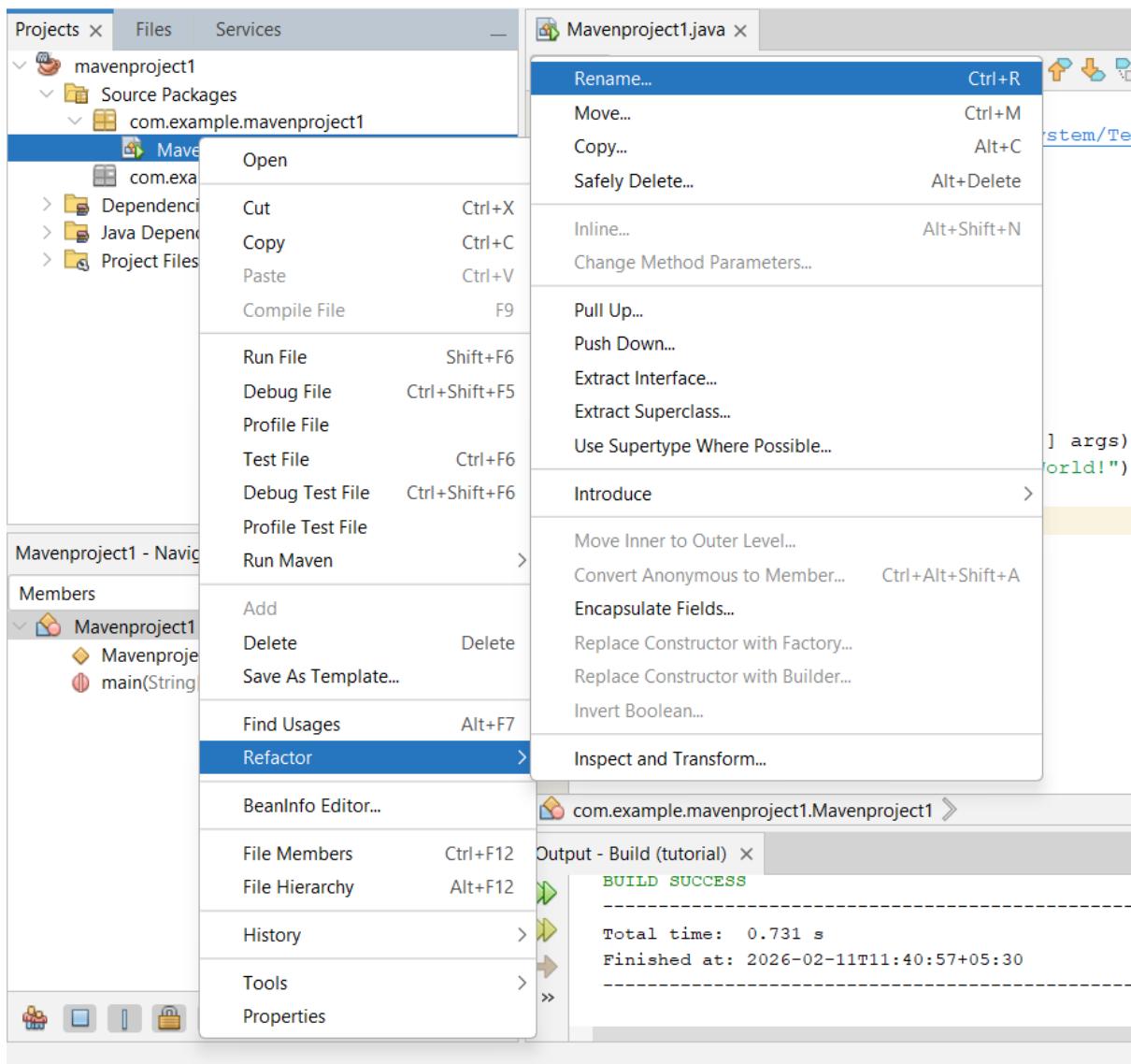
Creating new package inside example. You can change the package name



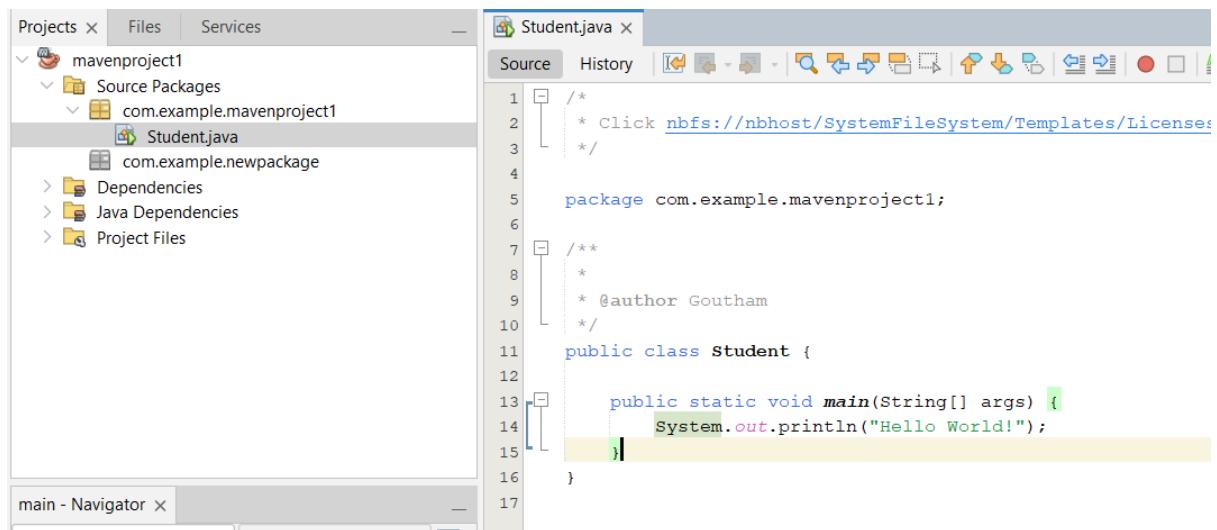
If you view it in project tab, then you will see something like this



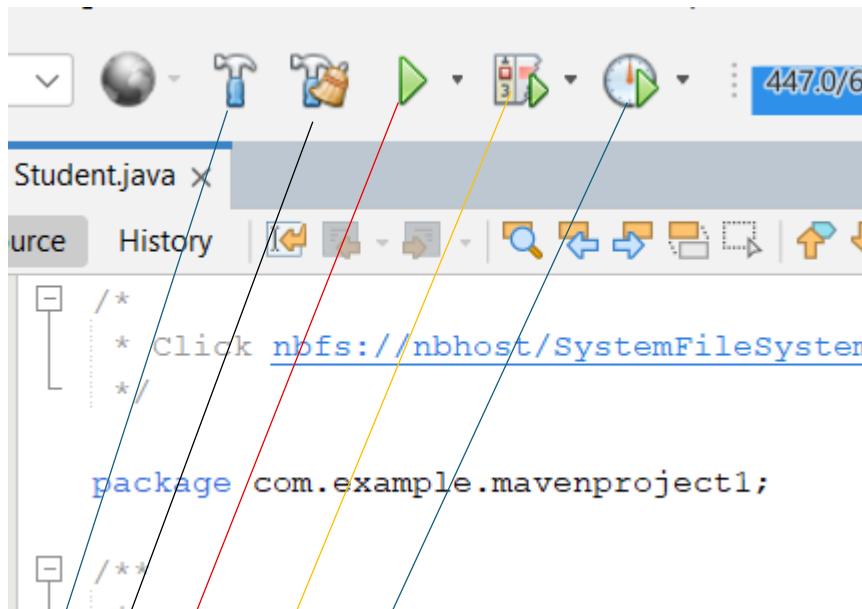
You can rename the class or package by simple right click on class click on refactor, click on rename



I renamed Maven1proj.java as Student.java



Compiling and executing the code



If you click on build project, then it will just compile entire project. Just like javac

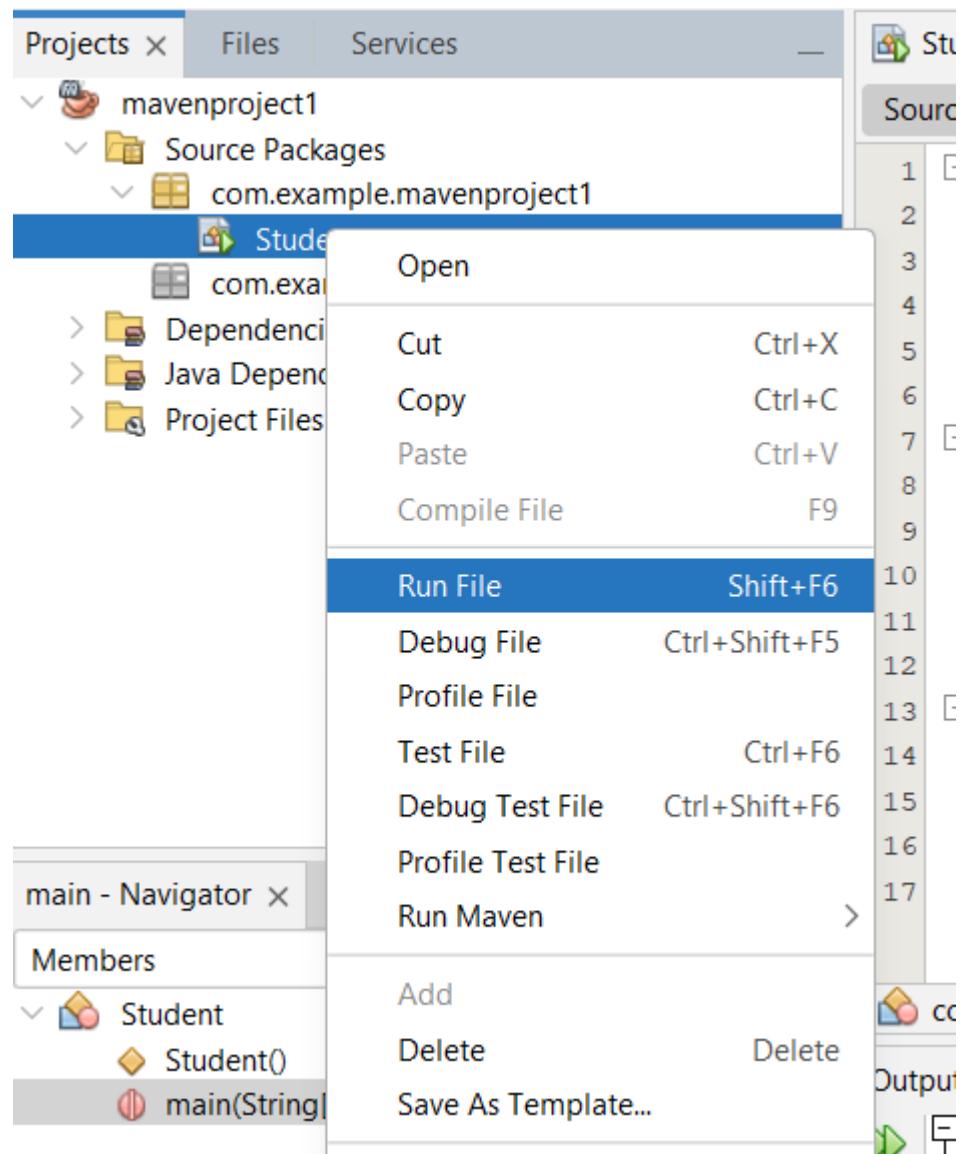
If you click on clean and build project, then it will automatically delete all the previous build i.e .class files, then it will compile the entire project

If you click on run project, then it will automatically build the project i.e compile the project and also run the class which contain public static void main (both javac and java)

If you click on debug project, then it will show the line by line execution of the code

If you click on profile project, then it works as debug only also display the memory and cpu usage.

You can also run individual file by directly right clicking on that file



Student.java

The screenshot shows an IDE interface with the following components:

- Project Explorer (left):** Shows a project named "mavenproject1" with a "Source Packages" folder containing "com.example.mavenproject1" and "Student.java".
- Editor (top right):** Titled "Student.java", it displays the Java code for the "Student" class.
- Navigator (bottom left):** Titled "Student.java - Navigator", it lists the members of the "Student" class, including its constructor, methods "calculate()", "display()", and "main()", and its instance variables "avg", "m1", "m2", "m3", "name", "result", and "total".
- Output (bottom right):** Titled "Output - Run (mavenproject1)", it shows the command "mvn clean install -Dmaven-project1" being run.

package com.example.mavenproject1; //need not add this line, it will appear automatically based on your project name

```
import java.util.Scanner;
```

```
public class Student {
```

```
    String name, result;
```

```
    int m1, m2, m3, total;
```

```
    float avg;
```

```
    public Student(String name, int m1, int m2, int m3) {
```

```
this.name = name;  
this.m1 = m1;  
this.m2 = m2;  
this.m3 = m3;  
}  
  
void calculate(){  
    total=m1+m2+m3;  
    avg=total/3.0f;  
    if(avg>9)  
        result="A+";  
    else if(avg>8)  
        result="B+";  
    else  
        result="Fail";  
}  
  
void display(){  
    System.out.printf("Name: "+name+"\nM1: "+m1+"\nResult: "+result);  
}  
public static void main(String[] args){  
    String name;  
    int m1,m2,m3;  
  
    Scanner sc=new Scanner(System.in);  
  
    System.out.println("Enter student name,m1,m2,m3: ");  
    name=sc.next();
```

```
m1=sc.nextInt();
m2=sc.nextInt();
m3=sc.nextInt();

Student s=new Student(name,m1,m2,m3);
s.calculate();
s.display();
}

}
```