Steps to install java:

1. Navigate to http://www.oracle.com/technetwork/java/javase/downloads/index.html.
2. Click the “Download” button down “JDK.”
3. Scroll to the latest version of Java SE Development Kit.
4. Click “Accept License Agreement.”
5. Click the download link next to your operating system
6. Install the JDK on your computer.

Steps to install eclipse:

1.Download Eclipse from [https://www.eclipse.org/downloads](https://www.eclipse.org/downloads/). Under "Get Eclipse Neon" ⇒ Click "Download Packages". For beginners, choose the 3rd entry "**Eclipse IDE for Java Developers**" (32-bit or 64-bit) (e.g., "eclipse-java-neon-2-win32-x86\_64.zip" 161MB) ⇒ Download.

2.To install Eclipse, simply unzip the downloaded file into a directory of your choice (e.g., "d:\myproject").

**How to create .java and .class files**

**.class file is automatically generated when the byte code is converted into the java file by the JVM**

**In cmd type javac nameofjavafile.java class file is generated**

**In cmd type java nameofthefile.java java file will be executed**

**how to create packages and what is best way to give name?**

**To create packages firstly go to the source folder and give a right click**

* **Select create package name in the drop down**
* **Give a name to the package according to the type of the files Ex:com.action,com.model**
* **A package is created in the package we need to add the files of java or jsp**

**what is main method will do?**

**Main method: Main method is defined as public static void main(String args[]) it is the first method that executes when we run any program**

**The logic and the flow is written in the main method and all the objects are initiated in the main method. Without a main method the program does not executes.**

**creating property/data members :’**

**data members are of many types for instance int,string,float,Boolean**

**They are created in the class**

**Public int a=1;**

**Public string c=”sri”**

**Public private and protected are the access modifiers for the data members.**

**Create method with void?**

**Void function1(){**

**Int a=1;**

**Int b=2;**

**C=a+b;**

**System.out.println(“adding two numbers”+C);**

**}**

**creating variable, we can create variables inside method**

**yes we can create variables inside the methods.**

**Void function1(){**

**Int a=1;//int variables**

**Int b=2;//int variables**

**C=a+b;**

**System.out.println(“adding two numbers”+C);**

**}**

**creating method with return data type, we can return int/string/double/float/date**

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

**int a=9;**

**int b=8;**

**int c=min(a,b);**

**system.out.println(“smallest number is”+c);**

**}**

**int min(inta,int b){**

**if(a>b){**

**min= b;**

**else**

**min=a;**

**return min;**

**}**

**}**

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

**String d=”D”;**

**String c=”C”;**

**System.out.println(“the grade is”+function1(string grade));**

**}**

**String function1(string grade){**

**If(grade<70)**

**Grade=d;**

**Else**

**Grade=c;**

**Return Grade;**

**}**

**Create default constructor:**

**Class default{**

**Default(){**

**System.out.println(“this is default constructor”);**

**}**

**Mymethod(){**

**System.out.println(“this is the method of the class”);**

**}**

**Public static void main(String args[]){**

**Default obj=new Default();**

**Obj.Mymethod();**

**}**

**}**

**Parameterized constructor**

**Class para{**

**Para(int i,int j){**

**System.out.println(“parmeterized constructor”);**

**}**

**Para1(){**

**System.out.println(“the values are”);**

**}**

**Public static void main(string args[]){**

**Para p=new para(12,10);**

**p.Para1();**

**}**