

Step 1 Download jdk 1.8 and install that

If the installation was successful then you should find java folder in the following path:

C:\Program Files\Java (jdk,JRE)

Step 2: Once eclipse is downloaded extract the zipped file

Note while you create a project in eclipse select 2nd or 3rd radio button under JRE section

rules to design and develop methods:

1. Always program execution starts with opening bracket of main method
2. When user defined method calling statement executes the control will be transferred to the matching method
3. When closing bracket of user defined method runs, transfer the control back to calling statement
4. When closing bracket of main method runs the complete program execution would stop

Example 1:

```
package appjavapro6;

public class A {

    public static void main(String[] args) { //Rule 1 starts here

        A a1 = new A();

        a1.test(); // Rule 2 when calling stmt executes

    } //Rule 4 STOPS

    public void test() { //Control Comes here

        System.out.println("From test");

    } //Rule 3

}
```

//Output: From test

Example 2:

```
package appjavapro6;
```

```
public class A {  
    public static void main(String[] args) { //Rule 1 STARTS  
        A a1 = new A(); //No  
        System.out.println(100); //No  
        a1.test(); //Rule 2  
        System.out.println(500);  
    } //Rule 4 STOP  
    public void test() { //Control comes here  
        System.out.println("From test");  
    } //Rule 3  
}
```

//Output: 100 From test 500

Example 3:

```
package appjavapro6;
```

```
public class A {  
    public static void main(String[] args) { //Rule 1 START  
        A a1 = new A(); //No  
        System.out.println("From main"); //No  
    }  
}
```

```

        a1.test1();//Rule 2

        System.out.println(100);//No

        a1.test2();//Rule 2

        System.out.println(500);//No

    }//Rule 4 STOP

    public void test1(){//Control Comes Here

        System.out.println("From test1");

    }//Rule 3

    public void test2(){//Control Comes here

        System.out.println("From test2");

    }//Rule 3

}

```

//Output From main From test1 100 From test2 500

Example 4:

```

package appjavapro6;

public class A {

    public static void main(String[] args) {//Rule Starts

        System.out.println(100);//No

        A.test1();//Rule 2

    }//Rule 4 STOPS

    public static void test1(){//Control Comes here

        A a1 = new A();//no

        a1.test2();//rule 2

    }

}

```

```

        System.out.println("From test 1");//no
    }//Rule 3

    public void test2(){//Control Comes here

        System.out.println("From test 2");//no
    }//rule 3
}

```

//Output: 100 From test 2 From test 1

Note: rule 1 and rule 4 will execute only once in the program, where as rule 2 and rule 3 can be applied any number of times

Example 5:

```

package appjavapro6;

public class A {

    public static void main(String[] args) {//Rule 1 Starts

        A.test1();//Rule 2

        System.out.println(100);//No

        A.test1();//Rule 2

        System.out.println(200);

        A.test1();//rule 2

    }//rule 4 STOP

    public static void test1(){//Control Comes here

        System.out.println(500);

    }//Rule 3
}

```

```
}
```

```
//Output: 500 100 500 200 500
```