In order to see the output of our program we need to perform '2' tasks

- 1) Compilation
- 2) Running

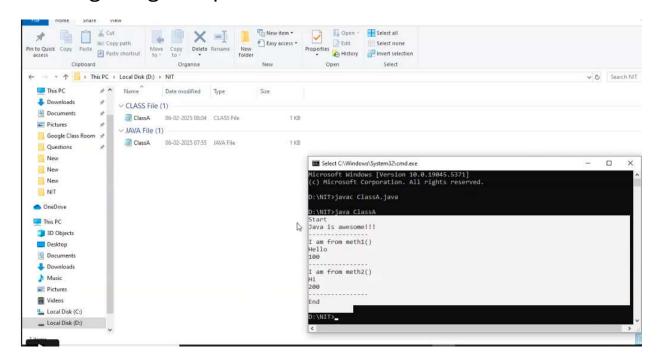
Compilation: [Java Compiler ===> javac FileName.java]

- 1) Compilation means checking whether the code weather we have written according to the Java language syntax or not.
- 2) After successful compilation Java compiler is going to generate a .class file.
- 3) The generated .class file name will be same as Class name
- 4) The generated .class file consists of 'bytecode' instructions which are understandable only by the machines humans cannot understand those instructions.

Running: [Java Virtual Machine: JVM ===> java generated.classFileName]

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- 1) In order to run our Java program, we need to send the generated .class file as an input to the JVM.
- 2) JVM is going to check whether all the byte code instructions which are present in the .class file are correct (or) wrong, if correct we will be getting output if wrong, we will be getting Exception



IDE – Integrated Development Environment

IDE is place where we can write the code effectively

There are lots of IDE in the market

Eclipse, my eclipse, net beam & intel j

package com.pack1;

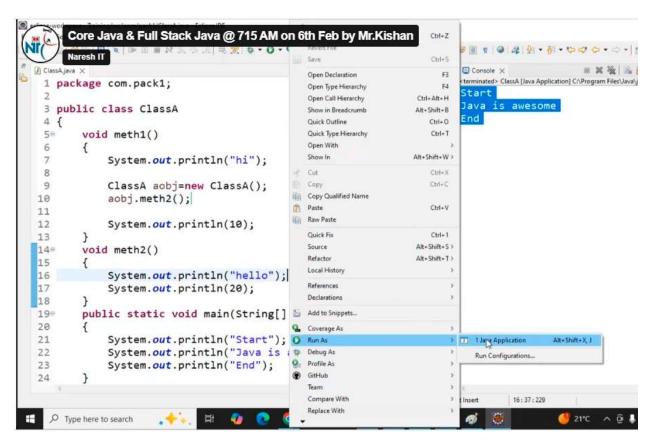
Package consists of similar types of classes, interfaces and enum.

```
☑ ClassA.java ×
                                                                     <terminated> ClassA [Java Application] C:\Progr
 1 package com.pack1;
                                                                     Java is awesome
 3 public class ClassA
 4 {
        void meth1()
             System.out.println("hi");
            System.out.println("10");
 8
 9
             System.out.println(10);
             System.out.println("10+10");
10
             System.out.println(10+10);
11
12
13=
        public static void main(String[] args)
14
            System.out.println("Java is awesome");
15
16
17
18 }
19
20
21
```

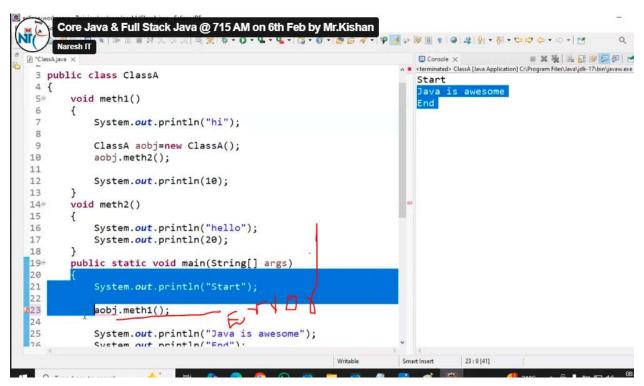
```
[J] ClassA.java X
                                                                    <terminated> ClassA [Java Appl
    1 package com.pack1;
                                                                     10
    3 public class ClassA
                                                                     10
    4 {
                                                                    10+10
    58
          void meth1()
    6
    7
              System.out.println("hi");
   8
              System.out.println("10");
   9
              System.out.println(10);
  10
              System.out.println("10+10");
   11
              //System.out.println(10+10);
  12
          public static void main(String[] args)
   13e
   14
   15
              ClassA aobj=new ClassA();
   16
              aobj.meth1();
   17
          }
   18
   19 }
   20
   21
                                                                        Console X
ClassA.java X
                                                                        <terminated> ClassA [
  1 package com.pack1;
                                                                        hi
                                                                        10
  3 public class ClassA
                                                                        10
  4 {
                                                                        10+10
  58
         void meth1()
                                                                        20
  6
         {
  7
              System.out.println("hi");
  8
              System.out.println("10");
  9
              System.out.println(10);
 10
              System.out.println("10+10");
 11
              System.out.println(10+10);
 12
 13∘
         public static void main(String[] args)
 14
 15
              ClassA aobj=new ClassA();
 16
              aobj.meth1();
 17
         }
 18
```

19 }

```
☑ ClassA.java ×
                                                                          Console X
                                                                          <terminated> ClassA [Java Application]
 1 package com.pack1;
                                                                          Start
                                                                          Java is awesome
 3 public class ClassA
                                                                          End
 4 {
 50
        void meth1()
 6
        {
 7
            System.out.println("hi");
 8
            System.out.println(10);
 9
        }
10-
        void meth2()
11
        {
12
            System.out.println("hello");
13
            System.out.println(20);
        }
14
158
        public static void main(String[] args)
16
17
            System.out.println("Start");
18
            System.out.println("Java is awesome");
19
            System.out.println("End");
20
        }
21
22 }
23
24
```



```
Core Java & Full Stack Java @ 715 AM on 6th Feb by Mr.Kishan
                                                             Console X
                                                                                         田田後 张
                                                                     <terminated> ClassA [Java Application] C:\Program Files\Java
   package com.pack1;
                                                                     Start
                                                                     Java is awesome
 3 public class ClassA
4 {
58
       void meth1()
 6
           System.out.println("hi");
 8
9
           ClassA aobj=new ClassA();
10
           aobj.meth2();
11
12
           System.out.println(10);
13
148
       void meth2()
15
16
           System.out.println("hello");
17
           System.out.println(20);
18
198
       public static void main(String[] args)
20
           System.out.println("Start");
21
           System.out.println("Java is awesome");
22
23
           System.out.println("End");
24
```



```
Console X
                                                                           <terminated> ClassA [Java Application] C:\
  3 public class ClassA
                                                                           Start
 4 {
                                                                           Java is awesome
5-
        void meth1() // main()
  6
                                                                           hello
  7
             System.out.println("hi");
8
             ClassA aobj=new ClassA(); // Creating an Object
                                                                           10
  9
             aobj.meth2();
                                                                           End
             System.out.println(10);
10
11
        }
120
        void meth2() //meth1()
13
14
             System.out.println("hello");
15
             System.out.println(20);
16
        }
17=
        public static void main(String[] args)
18
19
             System.out.println("Start");
20
             ClassA aobj=new ClassA(); // Creating an Object
             System.out.println("Java is awesome");
21
22
             aobj.meth1(); // Calling a method
23
             System.out.println("End");
24
25 }
25
                                                                    <terminated> ClassA [Java Application] C:\Program Files\Java\
 1 package com.pack1;
                                                                    int value : 10
  3 public class ClassA
  4 {
        void meth1()
  5
  6
            System.out.println("int value : "+10);
  7
  8
        public static void main(String[] args)
  9
 10
 11
            ClassA aobj=new ClassA();
 12
            aobj.meth1();
 13
 14 }
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
```

Smart Insert 11 : 9 [112]