

```

1. public class HelloWorld {

    public static void main(String args[]) {

        System.out.println("Hello world");

    }

}

```

Output:

The screenshot shows a Windows desktop environment. On the left, the Sublime Text editor is open with a file named 'HelloWorld.java'. The code in the editor is as follows:

```

1 public class HelloWorld {
2     public static void main(String args[]) {
3         System.out.println("Hello world");
4     }
5 }
6

```

On the right, a Command Prompt window is open, showing the following commands and their outputs:

```

C:\>cd java
C:\java>dir
Volume in drive C has no label.
Volume Serial Number is 4C9C-9DCB

Directory of C:\java

25-09-2020  11:27    <DIR>          .
25-09-2020  11:27    <DIR>          ..
15-09-2020  18:58    <DIR>          .metadata
15-09-2020  19:07    <DIR>          first
25-09-2020  11:27    <DIR>          Week2
               0 File(s)                0 bytes
               5 Dir(s)  162,251,083,776 bytes free

C:\java>cd Week2
C:\java\Week2>javac HelloWorld.java
'javac' is not recognized as an internal or external com
mand,
operable program or batch file.

C:\java\Week2>javac HelloWorld.java
C:\java\Week2>java HelloWorld
Hello world
C:\java\Week2>

```

The Windows taskbar at the bottom shows the date as 25-09-2020 and the time as 11:32.

```

2. public class Largest {

    public static void main(String args[]) {

        int a = 10,b = 20,c = 15, largest;

        if( a > b)
        {

            if(a > c) largest = a;

            else largest = c;

        }

        else

        {

```

```

        if(b > c) largest = b;

        else largest = c;

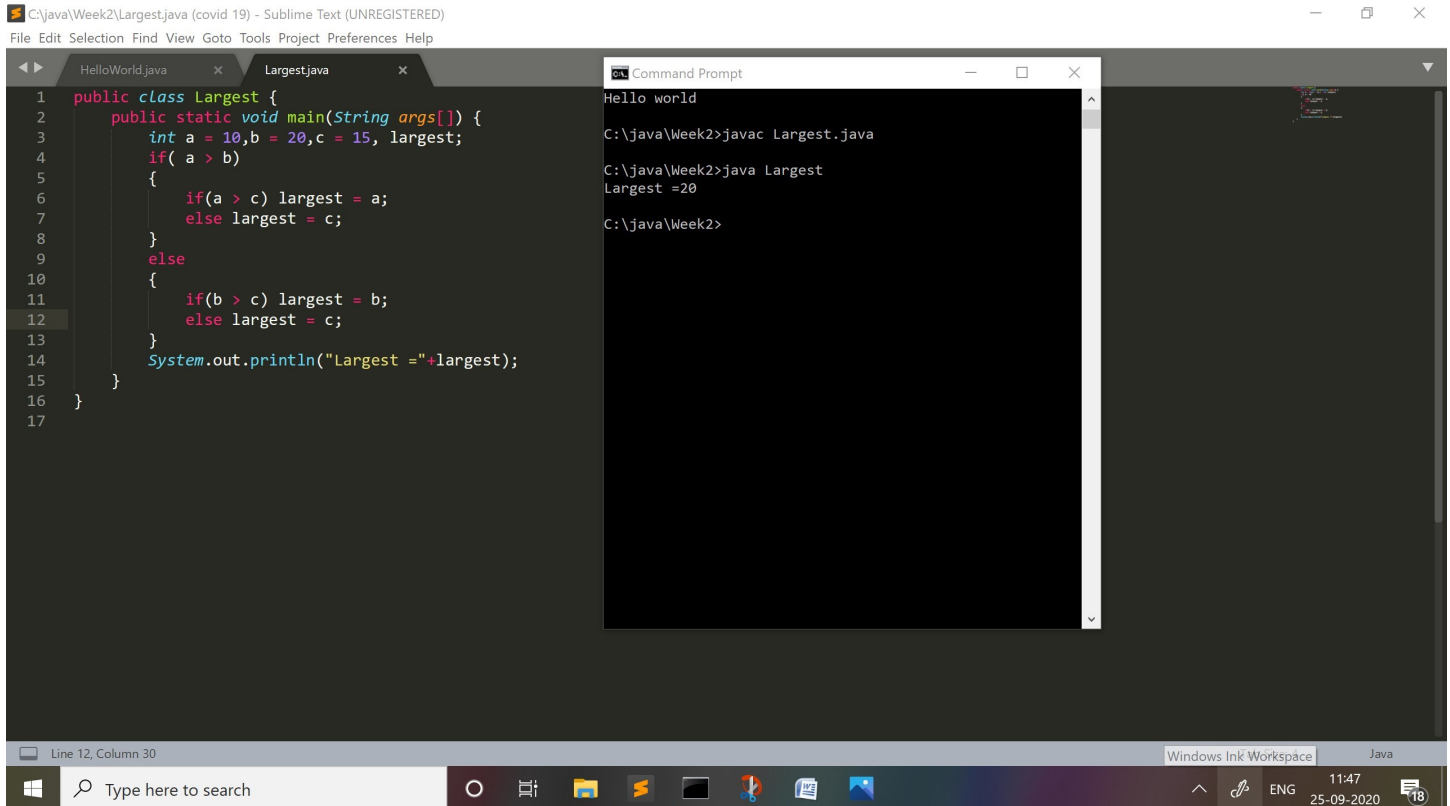
    }

    System.out.println("Largest =" +largest);

}

}

```



3. import java.util.Scanner;

class Numbers{

```

    public static void main(String[] args) {

        int n;

        Scanner in = new Scanner(System.in);

        System.out.print("Enter a number: ");

        n = in.nextInt();

        System.out.print("Numbers upto n are: ");

        for (int i = 0;i < n;i++)

        {

```

```

        System.out.print(i+" ");

    }

}

```

The screenshot shows a Sublime Text editor window with a file named 'Numbers.java' open. The code in the editor is as follows:

```

1 import java.util.Scanner;
2 class Numbers{
3     public static void main(String[] args) {
4         int n;
5         Scanner in = new Scanner(System.in);
6         System.out.print("Enter a number: ");
7         n = in.nextInt();
8         System.out.print("Numbers upto n are: ");
9         for (int i = 1; i <= n; i++)
10            {
11                System.out.print(i+" ");
12            }
13     }
14 }

```

To the right of the editor, a 'Select Command Prompt' window is open, showing the execution of the program:

```

C:\java\Week2>javac Numbers.java
C:\java\Week2>java Numbers
Enter a number: 10
Numbers upto n are: 1 2 3 4 5 6 7 8 9 10
C:\java\Week2>

```

The Windows taskbar at the bottom shows the date as 25-09-2020 and the time as 12:19.

```

4. import java.util.*;

class Pattern{

    public static void main(String args[]){

        int n,count = 1;

        Scanner in = new Scanner(System.in);

        System.out.print("Enter a number: ");

        n = in.nextInt();

        for (int i = 1; i <= n; i++)

        {

            for (int j = 0; j < i; j++){

                System.out.print(count+" ");

                count++;

            }

        }
    }
}

```

```

        System.out.print("\n");
    }
}
}

```

The screenshot shows a Sublime Text editor window with the file `C:\java\Week2\Pattern.java` open. The code in the editor is as follows:

```

1  import java.util.*;
2  class Pattern{
3      public static void main(String args[]){
4          int n,count = 1;
5          Scanner in = new Scanner(System.in);
6          System.out.print("Enter a number: ");
7          n = in.nextInt();
8          for (int i = 1;i <= n;i++){
9              {
10                 for (int j = 0; j < i; j++){
11                     System.out.print(count+" ");
12                     count++;
13                 }
14                 System.out.print("\n");
15             }
16         }
17     }

```

To the right of the editor is a Windows Command Prompt window. It shows the following commands and output:

```

C:\java\Week2>javac Pattern.java
C:\java\Week2>java Pattern
Enter a number: 5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
C:\java\Week2>

```

```

5. import java.util.*;

import java.lang.*;

class Grade{

    public static void main(String args[]){

        int cie,see,mark;

        char grade = '*';

        Scanner in = new Scanner(System.in);

        System.out.print("Enter CIE marks: ");

        cie = in.nextInt();

        System.out.print("Enter SEE marks: ");

        see = in.nextInt();

        mark = see + cie;

        if(mark > 100)

        {

```

```

System.out.println("Invalid marks");

        System.exit(0);
    }

    else if(mark >=90) grade = 'S';

    else if(mark >=80) grade = 'A';

    else if(mark >=70) grade = 'B';

    else if(mark >=60) grade = 'C';

    else if(mark >=40) grade = 'D';

    else grade = 'F';

    System.out.println("Grade :"+grade);
}
}

```

The screenshot shows a Java IDE (Sublime Text) with the file `Grade.java` open. The code in the IDE matches the code block above. To the right, a Command Prompt window shows the execution of the program. The user runs `javac Grade.java` and then `java Grade` three times, entering CIE and SEE marks each time. The output shows the calculated grade for each set of marks.

```

C:\java\Week2>javac Grade.java

C:\java\Week2>java Grade
Enter CIE marks: 45
Enter SEE marks: 40
Grade :A

C:\java\Week2>java Grade
Enter CIE marks: 22
Enter SEE marks: 25
Grade :D

C:\java\Week2>java Grade
Enter CIE marks: 50
Enter SEE marks: 70
Invalid marks

C:\java\Week2>

```

6.

```

import java.util.*;

class PrimeNumbers{

    public static void main(String args[]){

```

```

int m,n,status;

Scanner in = new Scanner(System.in);

System.out.print("Enter m: ");

m = in.nextInt();

System.out.print("Enter n: ");

n = in.nextInt();

System.out.print("Prime numbers between m and n are:\n");

if (m == 0 || m == 1)
{
    System.out.print("1\n");
    m = 2;
}

for(int i = m; i<=n; i++){
    status = 0;
    for (int j = 2;j<=i/2;j++)
    {
        if(i%j==0)
        {
            status = 1;
            break;
        }
    }
    if(status == 0){
        System.out.println(i);
    }
}
}

```

```
1 import java.util.*;
2 //import java.lang.*;
3 class PrimeNumbers{
4     public static void main(String args[]){
5         int m,n,status;
6         Scanner in = new Scanner(System.in);
7         System.out.print("Enter m: ");
8         m = in.nextInt();
9         System.out.print("Enter n: ");
10        n = in.nextInt();
11        System.out.print("Prime numbers between m and n are:\n");
12        if (m == 0 || m == 1)
13        {
14            System.out.print("1\n");
15            m = 2;
16        }
17        for(int i = m; i<=n; i++){
18            status = 0;
19            for (int j = 2;j<=i/2;j++)
20            {
21                if(i%j==0)
22                {
23                    status = 1;
24                    break;
25                }
26            }
27            if(status == 0){
28                System.out.println(i);
29            }
30        }
31    }
32 }
```

Command Prompt

```
C:\java\Week2>javac PrimeNumbers.java
C:\java\Week2>java PrimeNumbers
Enter m: 1
Enter n: 15
Prime numbers between m and n are:
1
2
3
5
7
11
13
C:\java\Week2>java PrimeNumbers
Enter m: 10
Enter n: 30
Prime numbers between m and n are:
11
13
17
19
23
29
C:\java\Week2>
```

Line 29, Column 13

Tab Size: 4

Java

Type here to search

13:28  
25-09-2020