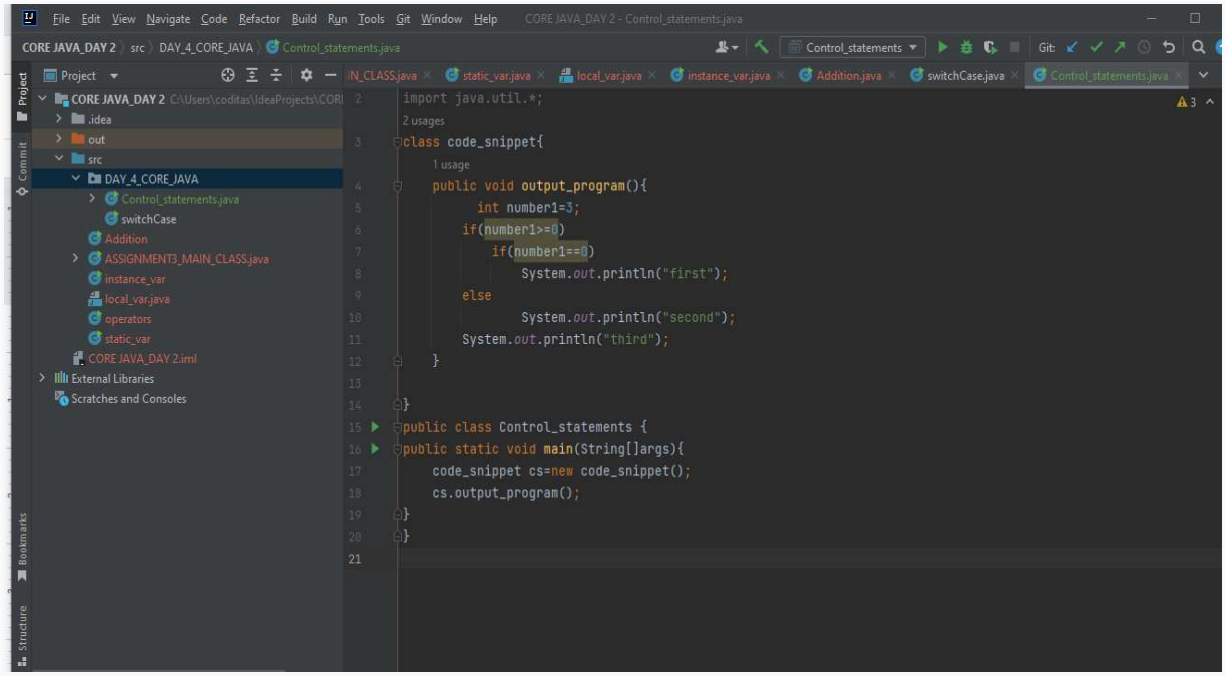
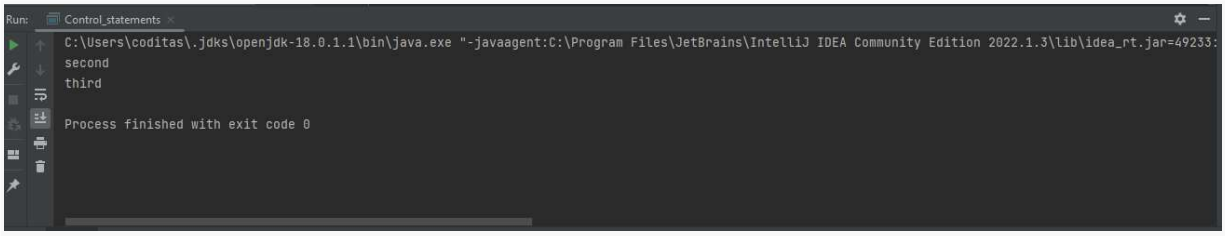
DAY 4 CORE JAVA ASSIGNMENT:4
DT:22/07/2022

Q:1)Consider the following code snippet
if (number1>= 0) if (number1== 0)
System.out.println("first"),
else
System.out.println("second");
System.out.println("third"),
Exercise: What output do you think the code will produce if number is 3?

ANS:1)





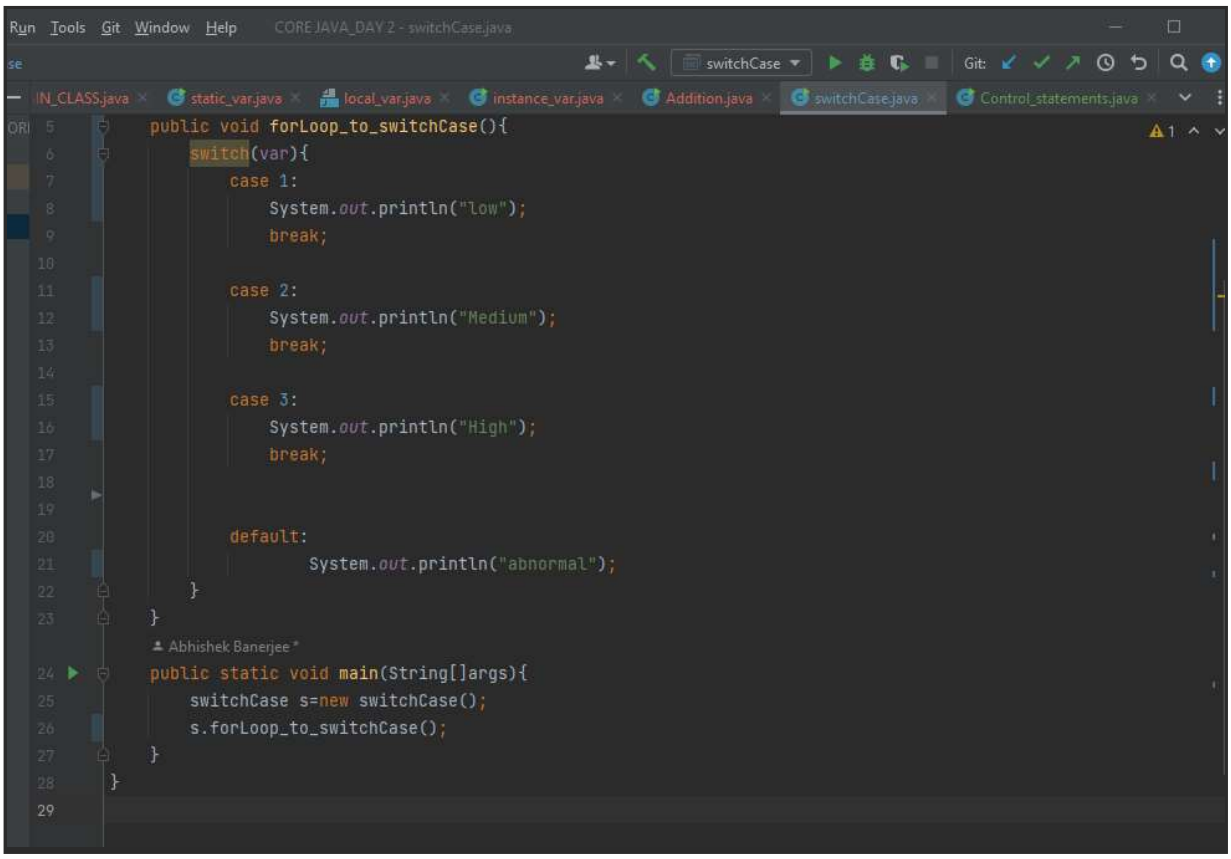
Q:2)Using only spaces and line breaks, reformat the alpove Q1) code snippet to make the control flow easier to understand?

ANS:2)

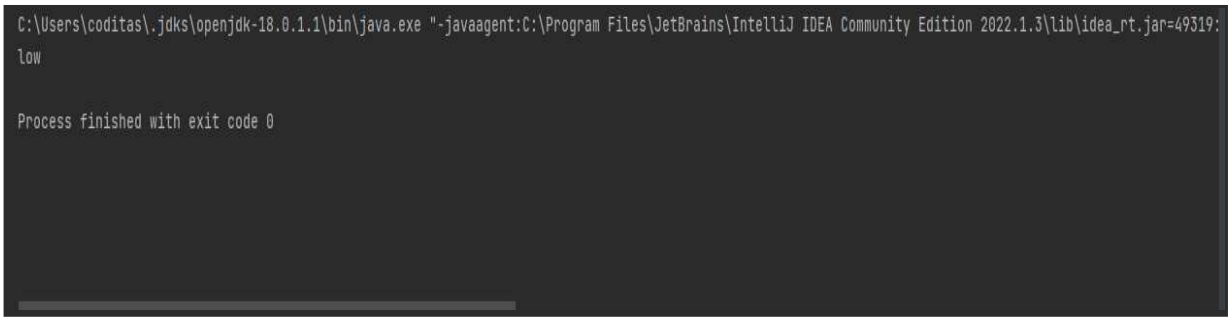
```
package DAY_4_CORE_JAVA;
import java.util.*;
class code_snippet
{
   public void output_program()
   {
         int number1 = 3;
       if(number1 >= 0)
           if(number1 == 0)
               System.out.println("first");
       else
               System.out.println("second");
                       System.out.println("third");
   }

}
public class Control_statements
{
public static void main(String[]args)
    {
   code_snippet cs=new code_snippet();
   cs.output_program();
    }
}
```

Q:3)Convert the following if-else if code into if(vara 1) switch case for temperature System.out.println("low"), else if(var == 2) System.out.println("medium"); else if(var == 3) System.out.println("high")) else System.out.println("abnormal");

ANS:3)



```java
public void forLoop_to_switchCase(){
    switch(var){
        case 1:
            System.out.println("low");
            break;

        case 2:
            System.out.println("Medium");
            break;

        case 3:
            System.out.println("High");
            break;


        default:
                System.out.println("abnormal");
    }
}
Abhishek Banerjee *
public static void main(String[]args){
    switchCase s=new switchCase();
    s.forLoop_to_switchCase();
}
}
```



```
C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\lib\idea_rt.jar=49319:
low

Process finished with exit code 0
```

Q : 4) Rewrite the following program code using the suitable 'if' command.

switch(m){ case 0:

x=x+2;

System.out.println("X=" x);

break;

case 1: Tx=x+4;

System.out.println("X=" x);

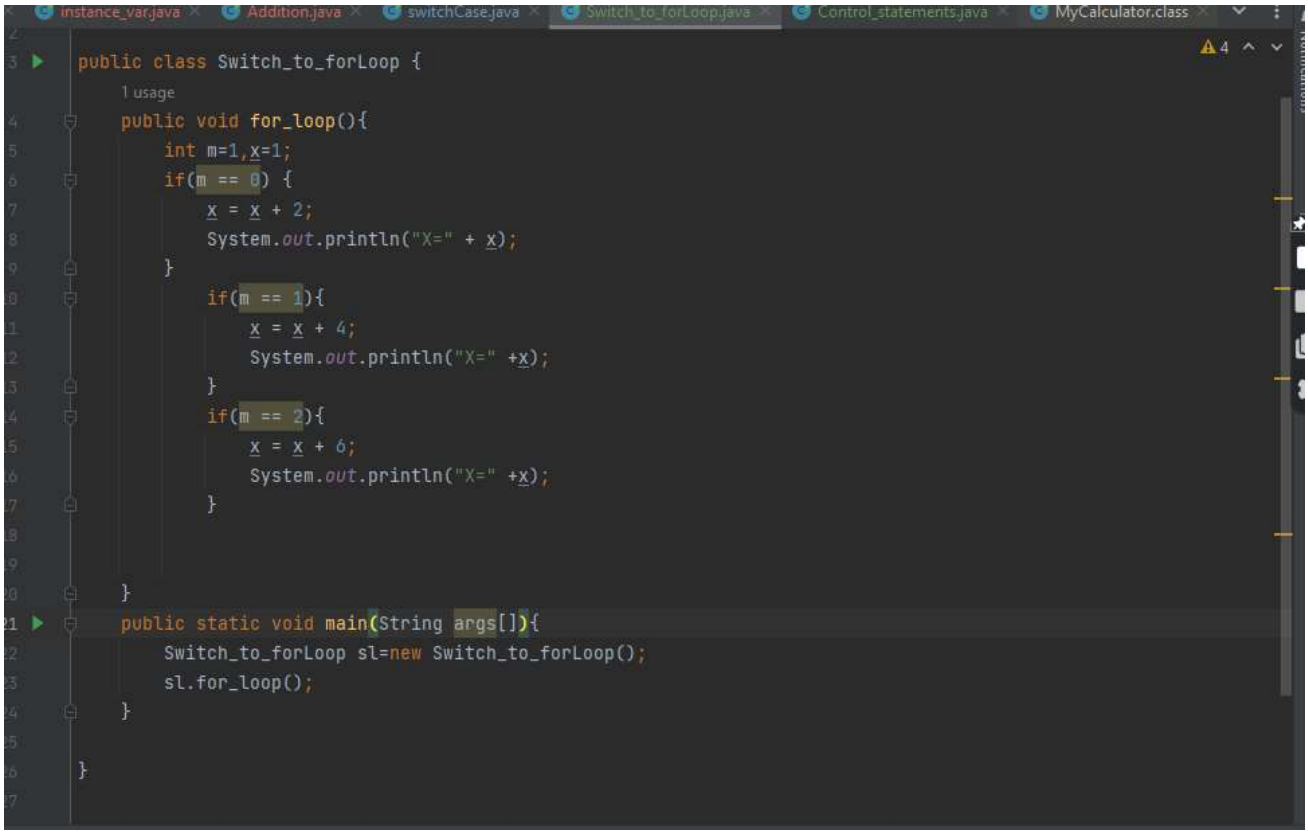
break; case 2:

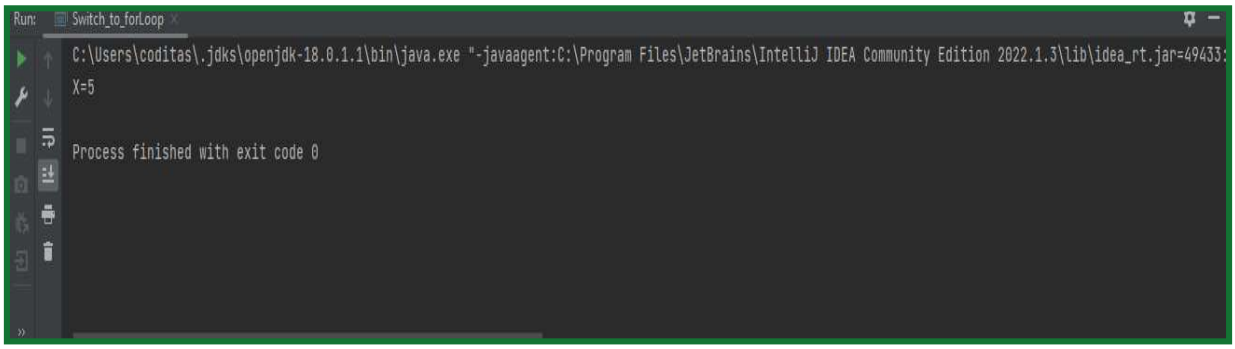
x=x+6;

System.out.println("X=" x);

break; }

Ans : 4)

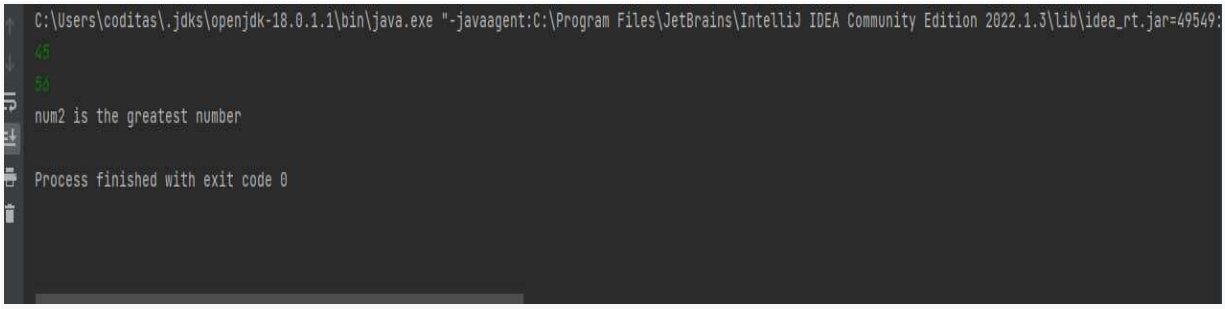




Q:5) Take two int values from the user and print the greatest among them?

Ans:5)

```java
import java.util.*;
2 usages
public class Greatest_num {
    1 usage
    public void g_number(){
        int num1=0,num2=0;
        if(num1>num2)
            System.out.println("num1 is the greatest number");
            else
            System.out.println("num2 is the greatest number");


    }
    public static void main (String args[]){
        Scanner sc=new Scanner(System.in);
        int num1=sc.nextInt();
        int num2=sc.nextInt();
        Greatest_num obj=new Greatest_num();
        obj.g_number();
    }
}
```



Q:6)Take input of age of 3 people by user and determine oldest and youngest among them. (by applying age criteria)?

ANS:6)

```
package DAY_4_CORE_JAVA;
import java.util.*;

public class Calculate_age {
   void age_operation() {
        int age1, age2, age3;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the age of each person : ");
        age1 = sc.nextInt();
        age2 = sc.nextInt();
        age3 = sc.nextInt();
        if( age1 > age2 && age1 > age3 ) {
            System.out.println("Oldest age is : " + age1);
            if( age2 > age3)
                System.out.println("Youngest age is : "+age3);
            else
                System.out.println("Youngest age is : "+age2);
        }
        else if ( age2 > age1 && age2 > age3 ) {
            System.out.println("Oldest age is : " + age2);
            if( age1 > age3)
                System.out.println("Youngest age is : "+age3);
            else
                System.out.println("Youngest age is : "+age1);
        }
        else if ( age3 > age1 && age3 > age2 ) {
            System.out.println("Oldest age is : " + age3);
            if( age1 > age2)
                System.out.println("Youngest age is : "+age2);
            else
                System.out.println("Youngest age is : "+age1);
        }
```

```
    }


    public static void main(String[] args) {
        Calculate_age age_object = new Calculate_age();
        age_object.age_operation();
    }
}

//OUTPUT IS:
//Enter the age of each person :
//45
//55
//65
//Oldest age is : 65
//Youngest age is : 45
//
//Process finished with exit code 0
```

Q:7)1) Perform below operations:

1)print below data:using any loop and jumping statement

Monday
Tuesday
wednesday
Friday
Saturday
Sunday

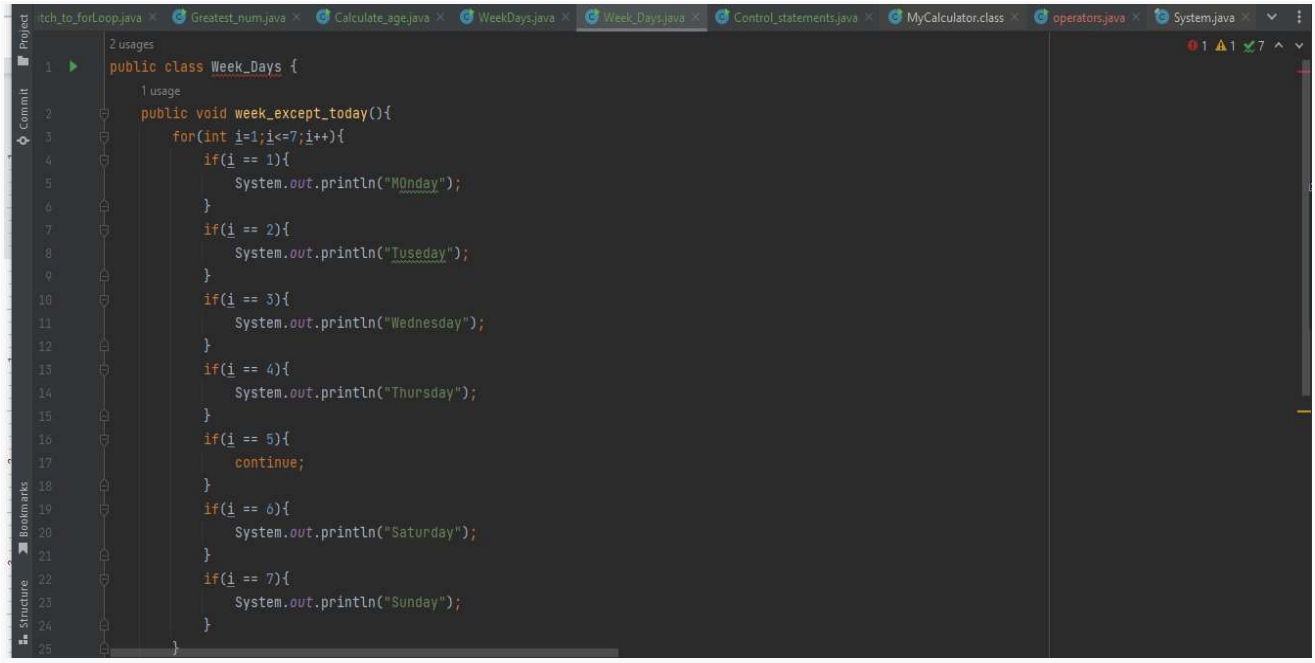
Ans:7)1)

```java
package DAY_4_CORE_JAVA;

public class WeekDays {
1 usage
public void week(){
    for(int i=1;i<=7;i++){
        if(i == 1){
            System.out.println("MOnday");
        }
        if(i == 2){
            System.out.println("Tuseday");
        }
        if(i == 3){
            System.out.println("Wednesday");
        }
        if(i == 4){
            System.out.println("Thursday");
        }
        if(i == 5){
            System.out.println("Friday");
        }
        if(i == 6){
            System.out.println("Saturday");
        }
        if(i == 7){
            System.out.println("Sunday");
        }
```

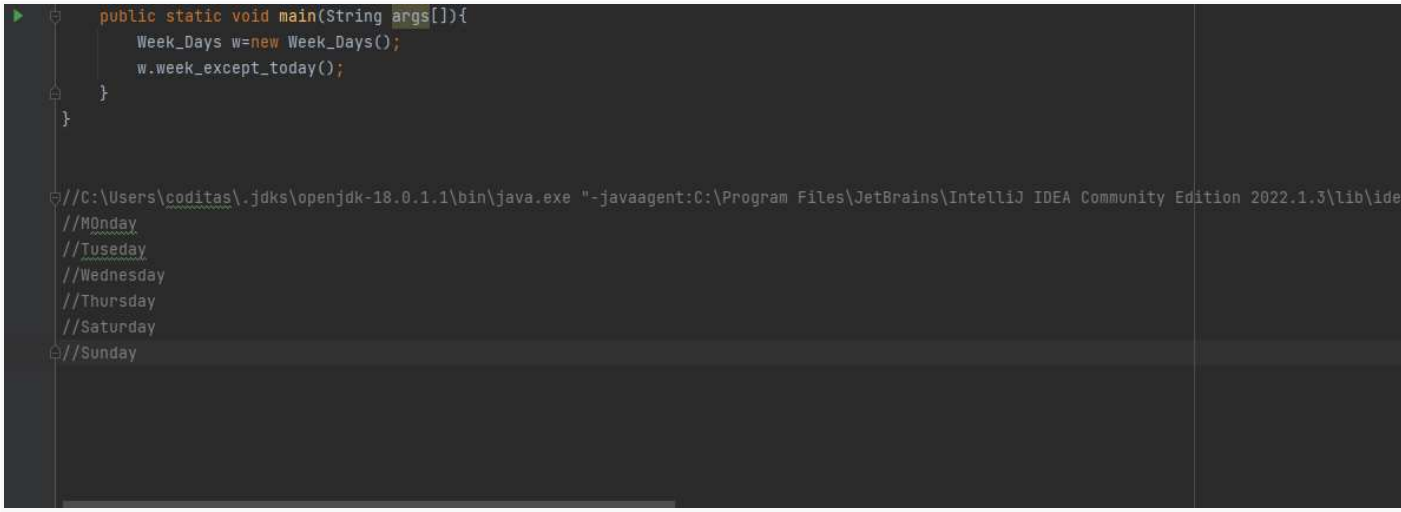
```java
    }
}
public static void main(String args[]){
    WeekDays wk=new WeekDays();
    wk.week();
}
}

//OUTPUT:

//C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\lib\idea_rt.jar=4986
//MOnday
//Tuseday
```

```
WeekDays
C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\lib\idea_rt.jar=49564
MOnday
Tuseday
Wednesday
Thursday
Friday
Saturday
Sunday
```

7)2)



```java
public class Week_Days {
    1 usage
    public void week_except_today(){
        for(int i=1;i<=7;i++){
            if(i == 1){
                System.out.println("MOnday");
            }
            if(i == 2){
                System.out.println("Tuseday");
            }
            if(i == 3){
                System.out.println("Wednesday");
            }
            if(i == 4){
                System.out.println("Thursday");
            }
            if(i == 5){
                continue;
            }
            if(i == 6){
                System.out.println("Saturday");
            }
            if(i == 7){
                System.out.println("Sunday");
            }
        }
```



```java
    public static void main(String args[]){
        Week_Days w=new Week_Days();
        w.week_except_today();
    }
}


//C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\lib\ide
//MOnday
//Tuseday
//Wednesday
//Thursday
//Saturday
//Sunday
```

7)3)

```java
package DAY_4_CORE_JAVA;

public class today_date {
    1 usage
    public void date(){
        for(int i=1;i<=22;i++){
            System.out.println(i);
            if(i==22){
                System.out.println("Todays's Date " +i);
                break;
            }
        }

    }
    public static void main(String args[]){
        today_date dt=new today_date();
        dt.date();
    }
}
```

C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\lib\idea_rt.jar=49939:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.3\bin" -Dfile.encoding=UTF-8 -classpath "C:\Users\coditas\IdeaProjects\CORE JAVA_DAY 2\out\production\CORE JAVA_DAY 2" DAY_4_CORE_JAVA.today_date
1
2
3
4
5
6

7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Todays's Date 22

Q:8) Draw the pattern:

ANS:8)

```
package DAY_4_CORE_JAVA;
import java.util.*;
public class Pattern {
   public static void main(String[] args) {
        // Declaring and initializing variable to

        int num = 5;

        int i = num, j;

        // Nested while loops
        // Outer loop

        // Till condition satisfied
        while (i > 0) {
            j = 0;
```

```
            // cheking Condition check
            while (j++ < num - i) {
                // Print whitespaces
                System.out.print(" ");
            }

            j = 0;

            // Inner loop
            // Condition check
            while (j++ < (i * 2) - 1) {
                // Print star
                System.out.print("*");
            }

            // so next line
            System.out.println();

            // reversing the pyramid value
            i--;
        }
    }
}
//C:\Users\coditas\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program
Files\JetBrains\IntelliJ IDEA Community Edition
2022.1.3\lib\idea_rt.jar=49873:C:\Program Files\JetBrains\IntelliJ IDEA
Community Edition 2022.1.3\bin" -Dfile.encoding=UTF-8 -classpath
"C:\Users\coditas\IdeaProjects\CORE JAVA_DAY 2\out\production\CORE JAVA_DAY 2"
DAY_4_CORE_JAVA.Pattern
//*********
// *******
//  *****
//   ***
//    *
//
//Process finished with exit code 0
```