EXPERIMENT – 1

1- PRINTING

```java
public class a {
public static void main(String args[]){
 System.out.print("Hello my name is Ansh Pandey!");
 }
}
```

Output – Hello my name is Ansh Pandey!

2- FACTORIAL

```java
3-  package basics;
4-  import java.util.Scanner;
5-  public class fact {
6-      public static void main(String[] args) {
7-          Scanner obj = new Scanner(System.in);
8-          System.out.println("Enter a number");
9-          int number = obj.nextInt();
10-             if(number<1){
11-                 System.out.println("Number is negative, factorial is not
    defined.");
12-             }
13-             else{
14-                 int fact = 1;
15-                 for(int i = 1;i<=number;i++){
16-                     fact = fact*i;
17-                 }
18-                 System.out.println("Factorial of "+number+" is: "+fact);
19-             }
20-             obj.close();
21-         }
22-
23-     }
```

Output - Enter a number

3

Factorial of 3 is: 6

3- LEAP YEAR

```java
// package basics;
import java.util.Scanner;
public class leapyear{
    public static void main(String args[]){
        Scanner obj = new Scanner(System.in);
        System.out.println("Enter the year");
        int year = obj.nextInt();
        if(year%400 == 0){
            System.out.println("Year is leap year:"+year);
        }
        else if(year%100 == 0){
            System.out.println("Year is not a leap year:"+year);
        }
        else if(year % 4 == 0){
            System.out.println("Year is a leap year:"+year);
        }
        else{
            System.out.println("Year is not a leap year:"+year);
        }
        obj.close();
    }
}
```

Output - Enter the year

2026

Year is not a leap year:2026

PATTERNS:

```java
public class leftpyramid {
    public static void main(String[] args) {
        System.out.println("      *");
        System.out.println("     * *");
```

```
    System.out.println("   * * *");
    System.out.println("  * * * *");
    System.out.println("* * * * *");
  }
}
```

Output –

```
        *
       * *
      * * *
     * * * *
    * * * * *
```

```java
public class reverserightpyramid {
  public static void main(String[] args) {
    System.out.println("* * * * *");
    System.out.println("* * * *");
    System.out.println("* * *");
    System.out.println("* *");
    System.out.println("*");
  }
}
```

Output –

```
* * * * *
* * * *
* * *
* *
*
```

ANSH PANDEY

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