**EXPERIMENT – 1**

1. **PRINTING**

*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!

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

**Output -** Enter a number

3

Factorial of 3 is: 6

**3- LEAP YEAR**

*// 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:**

*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 –

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

*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 –

\* \* \* \* \*

\* \* \* \*

\* \* \*

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\*

ANSH PANDEY

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