Selection statement

1. WAP to check whether a number is even or odd
2. WAP to check whether a person is eligible for voting or not.
3. WAP to accept Cost Price from user and ask whether the user is a student or not. If the user is student and cost price is greater than 500, give discount of 10% ELSE discount will be 5%. If user is not student and cost price is greater 500 then give discount of 8% ELSE discount will be 2%. (Take all inputs from USER)
4. WAP to check whether Number is positive or negative or ZERO.
5. Accept three numbers from user and find out largest number among three and also find out whether that three numbers are equal or not.
6. Write a Java program that keeps a number from the user and generates an integer between 1 and 7 and displays the name of the weekday
   Test Data
   Input number: 3
   Expected Output :
   Wednesday
7. Write a Java program to find the number of days in a month.
   Test Data
   Input a month number: 2
   Input a year: 2016
   Expected Output :
   February 2016 has 29 days

Branching statement

1. WAP using following menus-
Choice-1: Accept number and find out square.
Choice-2: Accept number and find out cube.
Choice-3: Check whether the given year is LEAP or not.
If user enters wrong choice appropriate message should get displayed.

2. WAP using switch case for arithmetic operation on two numbers, if user enters an operator as choice, the appropriate operation should perform. If user enters wrong choice appropriate message should get displayed. i.e.
+ is for addition, - is for subtraction

Looping statements

1. WAP to print all prime from 1 to 100
2. WAP to print all Armstrong numbers from 1 to 1000
3. Write a program in Java to input 5 numbers from keyboard and find their sum and average.

   Test Data

   Input the 5 numbers : 1 2 3 4 5

   Expected Output :

   Input the 5 numbers :

   1

   2

   3

   4

   5

   The sum of 5 no is : 15

   The Average is : 3.0
4. Write a program in Java to display the cube of the number upto given an integer.

   Test Data

   Input number of terms : 4

   Expected Output :

   Number is : 1 and cube of 1 is : 1

   Number is : 2 and cube of 2 is : 8

   Number is : 3 and cube of 3 is : 27

   Number is : 4 and cube of 4 is : 64
5. Write a program in Java to display the multiplication table of a given integer.

   Test Data

   Input the number (Table to be calculated) : Input number of terms : 5

   Expected Output :

   5 X 0 = 0

   5 X 1 = 5

   5 X 2 = 10

   5 X 3 = 15

   5 X 4 = 20

   5 X 5 = 25

6. Write a program in Java to display the n terms of odd natural number and their sum.

   Test Data

   Input number of terms is: 5

   Expected Output :

   The odd numbers are :

   1

   3

   5

   7

   9

   The Sum of odd Natural Number upto 5 terms is: 25

7. Write a program in Java to display the pattern like right angle triangle with a number.

   Test Data

   Input number of rows : 10

   Expected Output :

   1

   12

   123

   1234

   12345

   123456

   1234567

   12345678

   123456789

   12345678910

8. Write a program in Java to make following pattern

   1

   22

   333

   4444

```
1
2 3
4 5 6
7 8 9 10
```

```
      1
    2   2
  3   3  3
 4   4   4   4
```

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

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*
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***
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9. Write a program in Java to display the cube of the number upto given an integer.

Test Data

Input number of terms : 4

Expected Output :

Number is : 1 and cube of 1 is : 1
Number is : 2 and cube of 2 is : 8
Number is : 3 and cube of 3 is : 27
Number is : 4 and cube of 4 is : 64

10. WAP to print the following on output screen using jumping statements

```
1    5
2    4
4    2
5    1
```