

DAY 3 ACTIVITIES**TOPIC : FLOW CONTROL**

1. Kotlin program to get a number from the user and print whether it is positive or negative.
2. program that keeps a number from the user between 1 and 7 and displays the name of the weekday.
3. program to find the number of days in a month.
4. program that takes the user to provide a single character from the alphabet. Print Vowel or Consonant, depending on the user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message.
5. program in Kotlin to input 5 numbers from keyboard and find their sum and average
6. Kotlin to display the cube of the number upto given an integer
7. program in Kotlin to display the multiplication table of a given integer
8. program in Kotlin to display the n terms of odd natural number and their sum
9. a program in Kotlin to display the pattern like right angle triangle with a number

1

12

123

1234

12345

123456

1234567

12345678

123456789

12345678910

10. Write a program in Kotlin to make such a pattern like right angle triangle with a number which will repeat a number in a row. The pattern is as follows

1

22

333

4444

11. Write a program in Kotlin to make such a pattern like right angle triangle with number increased by 1. The pattern like :

1

2 3

4 5 6

7 8 9 10

12. Write a program in Kotlin to make such a pattern like a pyramid with a number which will repeat the number in the same row.

1

2 2

3 3 3

4 4 4 4

13. Write a program in Kotlin to print the Floyd's Triangle. Input number of rows : 5

1

2 3

4 5 6

14. Write a program in Kotlin to display the pattern like a diamond. Go to the editor

Input number of rows (half of the diamond) : 7

Expected Output :

15. Write a Kotlin program to display Pascal's triangle. Go to the editor

Input number of rows: 5

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

16. Write a Kotlin program to generate a following *,#'s triangle.

Input the number: 6

Expected Output :

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*

17. Write a Kotlin program to display the number rhombus structure.

Test Data

Input the number: 7

Expected Output :

1

212

32123

4321234

543212345

65432123456

7654321234567

65432123456

543212345

4321234

32123

212

1

18. Write a Kotlin program to display the following character rhombus structure.

Input the number: 7

Expected Output :

A

ABA

ABCBA

ABCD CBA

ABCDEDCBA

ABCDEFEDCBA

ABCDEFGFEDCBA

ABCDEFEDCBA

ABCDED CBA

ABCDCBA

ABCBA

ABA

A

19. Write a Kotlin program that reads an positive integer and count the number of digits the number (less than ten billion) has.

Input an integer number less than ten billion: 125463

Expected Output :

Number of digits in the number: 6