# Objectives

Practice do-while loop, data type validation, and Random class.

# Problem

Write a program that simulates a person trying to climb up a mountain. The person starts on the ground, at height 0. Each iteration, the person climbing up the mountain either moves up a random number of steps between 1-5. Or the person slips down a random number of steps between 1 and 5. There is a 50% chance on each iteration that the person either climbs up or slips down therefore a random number 0 or 1 must be generated to decide if the person will climb up or slips down. Refer to the sample output.

# Requirements

* A shell has been provided with some code in it. You need to complete it
* Must provide all the method
* Must follow the requirements
* Your output will not match my output since we are using the random class and numbers are being generated randomly.
* Refer to the rubric regarding the comments, indentation, proper naming, and other requirements.
* Codes submitted from the previous semesters will receive zero

# Methods

**Public static int input ():** this method asks the user for the height of the mountain. As long as the user is not entering a valid height, your program must ask the user again. **Must use a while and a do while loop in this method.** This method must check for three things: integer value and also it must be a positive integer. And must be less than the MAX\_HEIGHT. Refer to the video for the sample code. The mountain height that user enters must be an integer greater than zero. (data type validation and range validation are being done). The range of the mountain height is between 1 and a maximum value

**public static int climb (**): refer to the provided shell

**Public static void execute ():**  refer to the provided shell

**public static void main (String [] args):**  refer to the shell

Public static void description (): displays a description of the program.