TASK-1

1. Create a program that takes a student's score as input and assigns a letter

grade (A, B, C, D, or F) based on a grading scale.

90 - 100 -> A || 75 - 90 -> B || 60 - 75 -> C || 50 - 60 ->D || 35 - 50 -> E || less than 35 -> fail

Example 1: score : 90 , Output : A

2. Make a Calculator. Take 2 numbers (a & b) from the user and an operation as follows :

- + (Addition) a + b
- -(Subtraction) a – b
- (Multiplication) a * b
- / (Division) a / b
- % (Modulo or remainder) a % b

3. Given an integer n, return a string answer where:

- answer == "FizzBuzz" if i is divisible by 3 and 5.
- answer == "Fizz" if i is divisible by 3.
- answer == "Buzz" if i is divisible by 5.
- answer == i (as a string) if none of the above conditions are true.[Hint : String.valueOf(1) convert int 1 to "1" as string]

Example 1:

Input: n = 3 , Output: "Fizz"

4. Count Digits in a Number

Input : n=435;   Output : 3

5. Create a program for Hailstone Numbers

keep iterating N as following

N = N / 2 // For Even N

and N = 3 * N + 1 // For Odd N

Our number will eventually converge to 1 irrespective of the choice of N.

Input : N = 7

Output: Hailstone Numbers: 7, 22, 11, 34, 17,

52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2,1