Javascript Challenge 1

1) Ticket Validator

Create a validator for 1 ticket service with the following rules:

1) For less than 18 years old, the ticket price will be 50 % of normal ticket price
2) For 19-40 years old, the ticket price will be normal price.
3) For 40-65 years old, there will be a discount of 25%
4) For Senior citizen, 65 years old and above, it will be same discount as kids. (50 %)

2) Create a multiplication table where you will enter the number, multiplier and results.

Eg:

1 x 3 = 3

2 x 3 = 6

...

12 x 3 = 36

3) Write a loop that makes seven calls to console.log to output the following triangle:

```
#
##
###
####
###
##
#
```

4) Write a program that uses console.log to print all the numbers from 1 to 100, with two exceptions. For numbers divisible by 3, print "Fizz" instead of the number, and for numbers divisible by 5 (and not 3), print "Buzz" instead and"FizzBuzz" for numbers that are divisible by both 3 and 5.

5) Write a program that creates a string that represents an 8×8 grid, using newline characters to separate lines. At each position of the grid there is either a space or a “#” character. The characters should form a chess board. Passing this string to console.log should show something like this:

```
# # # # #
 # # # #
# # # # #
 # # # #
# # # # #
 # # # #
# # # # #
```

6) A prime number (or a prime) is a natural number greater than 1 that has no positive divisors other than 1 and itself. Print all the prime number between 1-1000.

7) A Fibonacci number is a number that add itself and it’s previous number , eg 1,1, 2,3,5,8,13,21 …

List the first 20 Fibonacci number