**Experiment number 1 b**

**Aim:** A Mersenne prime is a prime number that has the form 2p−1 where p is a positive number greater than 1. Write a program that calculates candidate Mersenne primes 2p − 1 for 2≤p≤31 using multiple classes and objects. Then test the number to see if it is prime. If you detect that the number is prime, print out the number and the value of p.