## CENG461 – Assignment 2: Logic Programming Using Prolog

## Solve the following problems using **Prolog**:

- 1.) Using the Structures parent(X,Y), male(X), and female(X), write a structure that defines mother(X,Y).
- 2.) Using the Structures parent(X,Y), male(X), and female(X), write a structure that defines sister(X,Y).
- 3.) Write a Prolog program to check if a number is prime.
- 4.) Write a Prolog program that succeeds if the intersection of two given list parameters is empty.
- 5.) Write a Prolog program to find the greatest common divisor of two numbers.
- 6.) Write a Prolog program to print Fibonacci series up to the *n*th term