Course: Artificial Intelligence Lab Assignment List: Week-1

1. Write a PROLOG program to find anwsers to the following queries based on the given facts. father of (X,Y):-?mother of (X,Y):-? grandfather of (X,Y):-? grandmother of(X,Y):-?sister of (X,Y):-? brother of (X,Y):-? aunt of (X,Y):-? uncle of (X,Y):-? ancestor of (X,Y):-?/*facts*/ male (jack). male(oliver). male(ali). male(james). male(simon). male(harry). female (helen). female (sophie). female (jess). female(lily). parent of (jack, jess). parent_of(jack,lily). parent of (helen, jess). parent of (helen, lily). parent of (oliver, james). parent of (sophie, james). parent of (jess, simon). parent of (ali, simon). parent of (lily, harry). parent of (james, harry).

- 2. Write a PROLOG program to calculate the sum of two given numbers.
- 3. Write a PROLOG program to calculate the product of three given numbers.
- 4. Write a PROLOG program to check whether a given number is odd or even.
- 5. Write a PROLOG program to find the maximum of two given numbers.
- 6. Write a PROLOG program to find the minimum of three given numbers.
- 7. Write a PROLOG program to find maximum difference among three given numbers.
- $8.\ \mbox{Write a PROLOG program to find closest two integers among three given integers.}$