

Programming Paradigms and Pragmatics (CS202)

LAB - 6

1. Using the structures parent(X, Y), male(X), and female(X), write a structure that defines sister(X, Y).
2. Write a Prolog program to check if a number is prime.
3. Write a Prolog program that succeeds if the intersection of two given list parameters is empty.
4. Write a Prolog program to find the greatest common divisor of two numbers.
5. Write a Prolog program to print the Fibonacci series up to the nth term.
6. Write a Prolog program that implements an insertion sort.
7. Write a Prolog program to compute the factorial of a given number.
8. Write a Prolog program to check if a given list is a palindrome.
9. Write a Prolog program to reverse a list.
10. Write a Prolog program to merge two sorted lists into a single sorted list.
11. Write a Prolog program to check if a given number is an Armstrong number.
12. Write a Prolog program to determine whether a list has duplicate elements.
13. Write a Prolog program to implement the bubble sort algorithm.