

Lab Work -06

Find Cyclomatic Complexity of a C Code

1. Save the following code written in C in a .txt file.

```
main()
{
    int number, index;
1.    printf("Enter a number");
2.    scanf("%d", &number);
3.    index = 2;
4.    while(index <= number - 1)
5.    {
6.        if (number % index == 0)
7.        {
8.            printf("Not a prime number");
9.            break;
10.        }
11.    index++;
12.    }
13.    if(index == number)
14.        printf("Prime number");
15.} //end main
```

2. Read the file using JavaScript or PHP or python.
3. Generate a graph for the code using the path testing algorithm.
4. Calculate the number of nodes, edges, and programs and calculate the cyclomatic complexity of the code.
5. Your code should be dynamic so that it can be applied to other simple C codes as well.