**Assignment 4**

Ques1. Define the term cyclomatic complexity in software engineering. What are the various ways to find it? What is its significance?

Ques2: For the given function, find the following terms:

1. Flow chart of function
2. Number of regions
3. Cyclomatic complexity
4. Basis path testing

2.1) int main() {

int n, i, flag = 0;

printf("Enter a positive integer: ");

scanf("%d", &n);

for (i = 2; i <= n / 2; ++i) {

if (n % i == 0) {

flag = 1;

break;

}

}

if (n == 1) {

printf("1 is neither prime nor composite.");

}

else {

if (flag == 0)

printf("%d is a prime number.", n);

else

printf("%d is not a prime number.", n);

}

return 0;

}

2.2) void check(int a, int b, int c)

{

if(a!=b && b!=c && c!=a)

printf(“Triangle is scalene”);

else if(a==b && b==c && c==a)

printf(“Triangle is equilateral”);

else if(a==b || b==c || c==a)

printf( “Triangle is Isoceles”);

else if( (a+b)<c || (b+c)<a || (c+a)<b)

printf(“ It cannot be a Triangle”);

}