ASSIGNMENT 02

Marks: 05

NAME:_____

CLASS: _____

REG #: _____

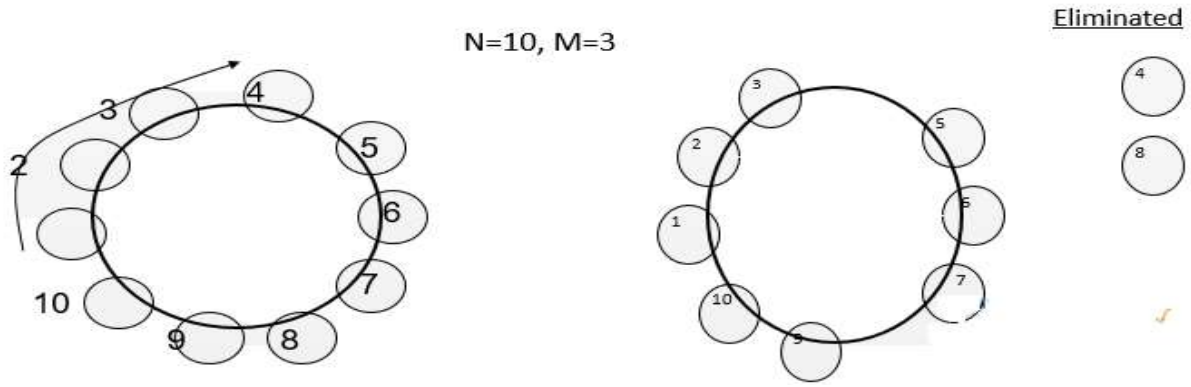
Marks Obtained:_____

Instructions.

1. Dead line: Submit your assignment by 26-Apr-2024
2. Follow same format for assignment submission.
3. Copied/Plagiarized answers will be marked zero.
4. Write code and also attach output.

Scenario **CLO-4, PLO-4, C6**

N people, numbered 1 to N are sitting in a circle. Starting at person 1, a hot potato is passed. After M passes the person holding the hot potato is eliminated, the circle closes ranks and the game continues with the person who was sitting after the eliminated person picking up the hot potato. The last remaining person wins. Thus if *M=0* and *N=5*, players are eliminated in order and player 5 wins. If *M=1 and N=5* the order of elimination is 2,4,1,5



Design two different algorithms with different approaches to solve the above problem.

Create a code in C++ to implement both algorithms by applying appropriate data structure for general values of M and N.

Test your program with three different values of *M* and *N*.