**VISVESVARAYA TECHNOLOGICAL UNIVERSITY Jnana Sangama, Belgaum – 590 014**



**A MINI PROJECT REPORT**

*On*

**AQUA MANIA**

***Submitted in partial fulfilment of Bachelor of degree***

***In***

**COMPUTER SCIENCE AND ENGINEERING**

**For the academic year 2019-2020**

***By***

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***Under the guidance of***

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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**CERTIFICATE**

This is to certified that the mini-project report entitled **“AQUA MANIA”** submitted in the partial fulfilment of requirements of the VI semester, BE, CSE curriculum during Feb-June 2020 is the result of the work carried out by **VIDYASHREE B (1GD17CS047) and VIJAYALAKSHMI V U (1GD17CS048)** at Gopalan College of Engineering & Management.It is certified that all correction/suggestion indicated for internal assessment have been approved in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Signature of the Guide Signature of the HOD Signature of the Principal

**Ms. V N Manju Dr. M Pauline Dr. N Sengottaiyan**

External viva

Name of the examiners: Signature with date:

1.

2.

**DECLARATION**

We, **VIDYASHREE B (1GD17CS047), VIJAYALAKSHMI V U (1GD17CS048)**, students of VI semester B.E. in Computer Science and Engineering, **Gopalan** **College of Engineering and Management**, Bangalore, hereby declare that the project work entitled **“AQUA MANIA”** submitted to the **Visvesvaraya Technological University** during the academic year 2019-20, is a record of an original work done by us under the guidance of **Ms. V N MANJU**, Associate Professor, Department Computer Science and Engineering, Gopalan College of Engineering and Management, Bangalore. This project work is submitted in partial fulfilment of the requirements for the award of the degree of **Bachelor of Engineering** in **Computer Science and Engineering.** The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.

Date: VIDYASHREE B (1GD17CS047)

Place: Bengaluru VIJAYALAKSHMI V U (1GD17CS048)

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VIDYASHREE B (1GD17CS047)

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**ABSTRACT**

This project aims at graphical simulation of the **Tower of Hanoi problem** in an Open Graphics library (OpenGL) environment. OpenGL is the premier environment for developing portable, interactive 2D and 3D graphics applications. The Aqua Mania scenario showcases aqua lives. Like fishes, oxygen bubbles have been stimulated using OpenGL. Objects are moving and giving beautiful view. The fish can be moved in 8 directions using various keys. Thus giving the feel of playing with it.

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