**Visvesvaraya Technological University**

### BelAgaVI-590 018



**A CG Mini-Project Report**

**On**

***“Aquarium Simulation”***

*Submitted in partial fulfillment of the requirements for the 6th semester of*

***Bachelor of Engineering in Computer Science and Engineering***

*of Visvesvaraya Technological University, Belagavi*

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**2019**

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**CERTIFICATE**

Certified that the mini project work entitled **“AQUARIUM SIMULATION”** has been successfully carried out by **SAMEERA J BADAMI** bearing USN **1RN16CS088** and **SHASHANK G BHAT** bearing USN **1RN16CS095**, bonafide students of **RNS** **Institute of Technology** in partial fulfillment of the requirements for the **6th semester** of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University**, Belgaum, during academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the CG laboratory requirements of 6th semester BE, CSE.

**Mrs. S Mamatha Jajur Dr. G T Raju**

**Assistant Professor Vice Principal and HOD**

**Dept. of CSE Dept of CSE**

**External Viva:**

**Name of the Examiners Signature with Date**

**1.**

**2.**

**ACKNOWLEDGMENT**

Any achievement, be it scholastic or otherwise does not depend solely on the individual efforts but on the guidance, encouragement and cooperation of intellectuals, elders and friends. A number of personalities, in their own capacities have helped us in carrying out this project work. We would like to take this opportunity to thank them all.

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Date :  **Students’ names**

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**ABSTRACT**

The Aquarium Simulation project using OpenGL is created with a principle idea of how the fishes are kept in aquariums.The project has been designed to demonstrate some functions in OpenGL.It is just a visual of a typical aquarium and its working.

Further ,in this project we have used callback functions of OpenGL such as glutIdleFunc(),glutMouseFunc(),etc. Using glutMouseFunc() we can stop the simulation and we can continue it from where it had stopped.

This project is employed in various fields such as in aquarium shops to give a visual idea about different types of aquariums, this can also be used as wallpapers and background visuals for some systems.