

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**MIJAR, MOOBBIDRI D.K. -574225**

**KARNATAKA**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**CERTIFICATE**

This is to certify that the Micro-Project entitled **"QUEUE OPERATION USING SWINGS"** has been Successfully Completed

By

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The bonafide students of **Department of Computer Science & Engineering, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

A handwritten signature in blue ink, appearing to read "Shruthi Shetty".

**Mrs. Shruthi Shetty J**  
Micro Project Guide

A handwritten signature in blue ink, appearing to read "Manjunath Kotari".

**Dr. Manjunath Kotari,**

**HOD**  
**HOD CSE**

**Dept. Of Computer Science & Engineering**  
**Alva's Institute of Engg. & Technology**  
**Mijar, MOOBBIDRI - 574 225**

A handwritten signature in green ink, appearing to read "Principal".

**PRINCIPAL**

**Alva's Institute of Engg. & Technology,**  
**Mijar, MOOBBIDRI - 574 225, D.K.**