

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
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**A MICRO PROJECT REPORT ON
“QUEUE OPERATION USING SWINGS”**

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Under the Guidance of

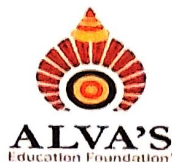
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CERTIFICATE

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

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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.

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ABSTRACT

A queue is a data structure which follows the principle of FIFO (*First-In-First-Out*) i.e. the elements are inserted at the end of the list, and are deleted from the beginning of the list. This interface is available in the `java.util.package` and extends the `Collection Interface`. Queue supports multiple methods, including insertion and deletion. In this project we have created an Java swing application to perform the Simple Queue operations like insertion , deletion and display the elements of the Queue.