

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**“Jnana Sangama”, Belagavi – 590 018**



**Inter/Intra Institutional Internship Report  
On**

**“PYTHON”**

Submitted in the partial fulfilment of the requirement for the award of the degree

**Bachelor of Engineering**

**In**

**Electronics & Communication Engineering**

Submitted by

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## CERTIFICATE

Certified that the Inter/Intra Institutional Internship report (21INT49) carried out by Mr. Charan A USN: 4GL21EC410, Mr.SUDEEP C G USN:4GL22EC408, Mr.U Sathisha USN: 4GL22EC410, were bonafide students of Government Engineering College, Kushalnagar in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report. This Inter/Intra Institutional Internship Report has been approved as it satisfies the academic requirements in respect of the Inter/Intra Institutional Internship prescribed for the Bachelor of Engineering Degree.

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## DECLARATION

We the members of Internship are studying in the Fourth semester of Electronics and Communication Engineering, Government Engineering College, Kushalnagar hereby declare that the entire Inter/Intra Institutional Internship Report Python has been carried out under the guidance of Dr. Choodarathnakara A.L, Head of the Department of Electronics and Communication Engineering, Government Engineering College, Kushalnagar. And Proffesor Manjunatha A, This Inter/Intra Institutional Internship Report is submitted to the Visvesvaraya Technological University, Belagavi in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Electronics and Communication Engineering during the academic year 2022-2023.

This Inter/Intra Institutional Internship Report has not been submitted previously for the award of any other degree or diploma to any other institution or university.

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# ABSTRACT

Python was conceived in the late 1980s by Guido van Rossum at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to the ABC programming language, which was inspired by SETL, capable of exception handling and interfacing with the Amoeba operating system. Its implementation began in December 1989.

Van Rossum shouldered sole responsibility for the project, as the lead developer, until 12 July 2018, when he announced his "permanent vacation" from his responsibilities as Python's "benevolent dictator for life", a title the Python community bestowed upon him to reflect his long-term commitment as the project's chief decision-maker. In January 2019, active Python core developers elected a five-member Steering Council to lead the project.

Python 2.0 was released on 16 October 2000, with many major new features such as list comprehensions, cycle-detecting garbage collection, reference counting, and Unicode support.

Python 3.0, released on 3 December 2008, with many of its major features backported to Python 2.6.x and 2.7.x. Releases of Python 3 include the `2to3` utility, which automates the translation of Python 2 code to Python 3.

Python 2.7's end-of-life was initially set for 2015, then postponed to 2020 out of concern that a large body of existing code could not easily be forward-ported to Python 3.

No further security patches or other improvements will be released for it. Currently only 3.7 and later are supported. In 2021, Python 3.9.2 and 3.8.8 were expedited as all versions of Python (including 2.7) had security issues leading to possible remote code execution and web cache poisoning.

In 2022, Python 3.10.4 and 3.9.12 were expedited and 3.8.13, and 3.7.13, because of many security issues. When Python 3.9.13 was released in May 2022, it was announced that the 3.9 series (joining the older series 3.8 and 3.7) would only receive security fixes in the future. On September 7, 2022, four new releases were made due to a potential denial-of-service attack: 3.10.7, 3.9.14, 3.8.14, and 3.7.14.

As of November 2022, Python 3.11 is the stable release. Notable changes from 3.10 include increased program execution speed and improved error reporting.

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