







## "A simple quiz game program in python with the score" (python project)

(INDUSTRIAL REPORT-WEEK 1)

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#### **Executive Summary**

This report provides details of the Industrial Internship provided by Upskill Campus and The IoT Academy in collaboration with Industrial Partner UniConverge Technologies Pvt Ltd (UCT).

This internship is focused on a project/problem statement provided by UCT. We had to finish the project including the report in 6 weeks' time.

My project is (A simple Quiz Game Program in Python with the Score)

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#### 1 Preface

Summary of the 1st week work.

I undertook this internship project and completed the first week internship report under the guidance of this associated company. I am grateful to all for their patience and assistance during my online training at their Virtual site named"Upskill Campus". It was a good learning experience for me to work with their weekly project, as the project involved many innovative practices.

#### 1.1.1 Information about the internship position

I joined Upskill campus for an internship program in the position of a **Python Intern**. While the central focus was on focusing in this program wisely and learn effectively, I also handled various other tasks as they occurred.

I want to thank my advisers and everyone at the company for their patience and assistance during my on-site training. Thanks to their guidance, I was able to develop [PYTHON SKILLS] and learn about [PYTHON]. These skills would help me to expand my resume and advance my career.

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#### 2 Introduction

#### 2.1 About UniConverge Technologies Pvt Ltd

A company established in 2013 and working in Digital Transformation domain and providing Industrial solutions with prime focus on sustainability and Rol.

For developing its products and solutions it is leveraging various **Cutting Edge Technologies e.g. Internet** of Things (IoT), Cyber Security, Cloud computing (AWS, Azure), Machine Learning, Communication Technologies (4G/5G/LoRaWAN), Java Full Stack, Python, Front end etc.



#### i. UCT IoT Platform



**UCT Insight** is an IOT platform designed for quick deployment of IOT applications on the same time providing valuable "insight" for your process/business. It has been built in Java for backend and ReactJS for Front end. It has support for MySQL and various NoSql Databases.

- It enables device connectivity via industry standard IoT protocols MQTT, CoAP, HTTP, Modbus TCP, OPC UA
- It supports both cloud and on-premises deployments.





#### It has features to

- Build Your own dashboard
- Analytics and Reporting
- Alert and Notification
- Integration with third party application(Power BI, SAP, ERP)
- Rule Engine





ii.

#### [Your College Logo]





Factory watch is a platform for smart factory needs.

It provides Users/ Factory

- · with a scalable solution for their Production and asset monitoring
- OEE and predictive maintenance solution scaling up to digital twin for your assets.
- to unleased the true potential of the data that their machines are generating and helps to identify the KPIs and also improve them.
- A modular architecture that allows users to choose the service that they what to start and then can scale to more complex solutions as per their demands.

Its unique SaaS model helps users to save time, cost and money.







	Operator	Work Order ID	Job ID	Job Performance	Job Progress		Output			Time (mins)					
Machine					Start Time	End Time	Planned	Actual	Rejection	Setup	Pred	Downtime	Idle	Job Status	End Custome
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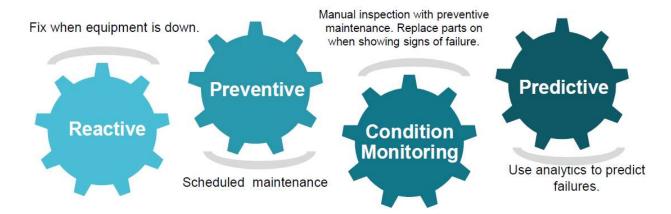


#### iii. based Solution

UCT is one of the early adopters of LoRAWAN teschnology and providing solution in Agritech, Smart cities, Industrial Monitoring, Smart Street Light, Smart Water/ Gas/ Electricity metering solutions etc.

#### iv. Predictive Maintenance

UCT is providing Industrial Machine health monitoring and Predictive maintenance solution leveraging Embedded system, Industrial IoT and Machine Learning Technologies by finding Remaining useful life time of various Machines used in production process.



#### 2.2 About upskill Campus (USC)

upskill Campus along with The IoT Academy and in association with Uniconverge technologies has facilitated the smooth execution of the complete internship process.

USC is a career development platform that delivers **personalized executive coaching** in a more affordable, scalable and measurable way.









Seeing need of upskilling in self paced manner along-with additional support services e.g. Internship, projects, interaction with Industry experts, Career growth Services

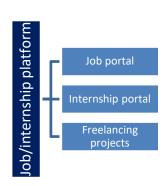
upSkill Campus aiming to upskill 1 million learners in next 5 year

https://www.upskillcampus.com/













#### 2.3 The IoT Academy

The IoT academy is EdTech Division of UCT that is running long executive certification programs in collaboration with EICT Academy, IITK, IITR and IITG in multiple domains.

#### 2.4 Objectives of this Internship program

The objective for this internship program was to

- reget practical experience of working in the industry.
- real world problems.
- reto have improved job prospects.
- to have Improved understanding of our field and its applications.
- to have Personal growth like better communication and problem solving.

#### 3 Problem Statement

the assigned problem statement

#### Create a simple quiz game program in python with score

(Description: The quiz game is a Python project that quizzes users on various topics. It reads questions and answers from a file or database, presents them to the user, and keeps track of their score.

Scope: The scope of this project involves designing a user interface to display questions and collect user answers, implementing a database or file system to store quiz data, and developing a scoring algorithm to track the user's progress and calculate their final score.)









This python program is considered as a mini-project for beginners and also helps them to boost their knowledge and confidence (this project gives you the confidence to learn more and more things) but before writing the program let's understand the algorithm for a python quiz game.





#### 4 Existing and Proposed solution

### Algorithm for a Simple python quiz game

- 1. Create one variable for counting score e.g score.
- 2. Ask questions to a user (using the input() function)
- 3. if a user gives a correct answer then increase a score by **1** and print(correct!)
- 4. if given answer of a user is incorrect then **print(incorrect!)** 5.and at last print **score** of the user.

Now you understand how to implement a simple quiz game in python through an above algorithm.

Few programming concepts you have to know for writing this program such as

- 1. if-else
- 2. <u>nested if-else</u>
- 3. how to take user input in python

4.1 Code submission (Github link) : https://github.com/shivam808047/python\_internship





#### 5.My learnings....

## What is Python?

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

#### It is used for:

- web development (server-side),
- software development,
- mathematics,
- system scripting.

#### Uses:

- Python can be used on a server to create web applications.
- Python can be used alongside software to create workflows.
- Python can connect to database systems. It can also read and modify files.
- Python can be used to handle big data and perform complex mathematics.
- Python can be used for rapid prototyping, or for production-ready software development.

#### Why python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
- Python has a simple syntax similar to the English language.
- Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
- Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.
- Python can be treated in a procedural way, an object-oriented way or a functional way.

#### GOOD TO KNOW....

• The most recent major version of Python is Python 3, which we shall be using in this tutorial. However, Python 2, although not being updated with anything other than security updates, is still quite popular.





 In this tutorial Python will be written in a text editor. It is possible to write Python in an Integrated Development Environment, such as Thonny, Pycharm, Netbeans or Eclipse which are particularly useful when managing larger collections of Python files.

#### Python Syntax compared to other programming languages

- Python was designed for readability, and has some similarities to the English language with influence from mathematics.
- Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses.
- Python relies on indentation, using whitespace, to define scope; such as the scope of loops, functions and classes. Other programming languages often use curly-brackets for this purpose.