**INT213 – PYTHON PROGRAMMING**

**Synopsis for the project**

**Topic – Alarm Tool**



**Submitted by:**

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| **Name** | **Roll No.** | **Reg. No.** |
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**Introduction**

The project titled **‘ALARM TOOL’** is based on creating a **GUI** tool that is capable of providing an alarm signal at the specified time set by the user. The ALARM is abbreviated as **‘A Learning And Responding Matrix’**. An alarm signal is basically an audio signal, that activate certain system of the human body. As it is known that the alarm clock is very useful tool and is regularly used in our daily life from home to workstations for variety of different purposes.

There are various types of alarm signal, many are used as a reminder to us and other as signal to help us from danger, for example the Flood alarm etc. Alarm is developed by **Max Woods** and is a very powerful tool that helps improve literacy and assist students with composing written responses for assessment task and exams.

Hence, Alarm tool are very useful yet very simple tools that help us in various aspects of the life. The aim of this project is to create a simple GUI (Graphic User Interface) alarm tool in the **python script**.

**Modules**

The project is divided into several modules –

1. **Alarm Time-**

In Time module the user is able to select or set the time of their choice at which they want an audio signal. The time shown here will represent a 12 Hour clock.

It further composes of the different attributes-

1. Hours
2. Minutes
3. Format
4. Message
5. **Snooze-**

By clicking into the snooze button the alarm gets delayed by the a certain amount of time.

1. **User interface-**

It consist of a GUI window under which there are multiple icon and buttons that an operator can use to set the specification of the Alarm.

1. **Timer-**

This module consist of the a certain duration of time set by user to act as an reminder other than alarm signal.

**Work Division:-**

The project is divided among three members:

1. **Nachiketa Khera [ Reg. No. – 11808944]**

**Roll Number 18**

He has been assigned to research on all the python modules that are necessary to build an effective Python alarm tool. He has also been assigned to create the timer module of the system and also helped in designing of the GUI.

1. **Gagan Raturi [ Reg. No. – 11808991]**

**Roll Number 19**

He has been assigned to program the Alarm tool and connect all the modules together to perform as system. He also created the Alarm time module and programmed the GUI of the system.

1. **Arun** **Kaushik [ Reg. No. – 11809044]**

**Roll Number 20**

He has been assigned to create the snooze module of the alarm tool and with that he also helped in designing and programming of the GUI and contributed in the searching of various modules need for the project.