Week 2

**Pre-course Preparation**

* Go through the slides and read the speaker notes to know what to present
* Go through the notes, worksheet and answer key to be familiar with the content
* Download the slides, notes, worksheets, answer key and python scripts on your laptop (there is no internet in the classroom that we will be using)
* Install Python 3.11

| **Time** | **Activity** | **Todo** |
| --- | --- | --- |
| **1715-1720 pm**  **(5 min)** | Welcome | * Brief on curriculum and learning objectives |
| **1720-1730 pm**  **(10 min)** | Variable Types & Operators | * Introduce different types of variables * Introduce operators * Hands-on practice for students (variable assignment and simple calculations) |
| **1730-1740 pm**  **(10 min)** | Lists | * Introduce lists * Explain why lists are useful for storing variables * Basic indexing and assignment by index |
| **1740-1750 pm**  **(10 min)** | While Loops | * Introduce while loops * Why do we use loops * What are conditions in loops * Concept of infinite loop and how to break loop |
| **1750-1800 pm**  **(10 min)** | For Loops | * Introduce for loops * Differences between for and while loops * Introduce range and len(list) |
| **1800-1830 pm**  **(30 min)** | Scissors Paper Stone | * Using their understanding of functions, students will create a basic text-based RPS game * ‘Fill-in-the-blanks’ style exercise (most of the code is provided, students just need to fill in missing code correctly) * Confident students can choose to attempt without the helper code |