

## ASSIGNMENT 02

### 1. Commenting code in Python:

Single-line comments start with #, e.g., # This is a single-line comment.

Multi-line comments (docstrings) use triple quotes at the beginning and end, e.g., `"""This is a multi-line comment"""`.

### 2. Variables in Python:

Variables are names used to store data in memory.

Declaration and assignment: `variable_name = value`

### 3. Converting data types in Python:

Use conversion functions like `int()`, `float()`, `str()`, etc.

### 4. Writing and executing a Python script from the command line:

Write code in a .py file.

Execute using `python filename.py`.

### 5. Slicing a list:

```
my_list = [1, 2, 3, 4, 5]
```

```
sub_list = my_list[1:3]           # This gives [2, 3]
```

### 6. Complex numbers in Python:

Represented as `a + bj`, where `a` and `b` are real numbers and `j` is the imaginary unit.

### 7. Declaring and assigning a variable:

```
age = 25
```

