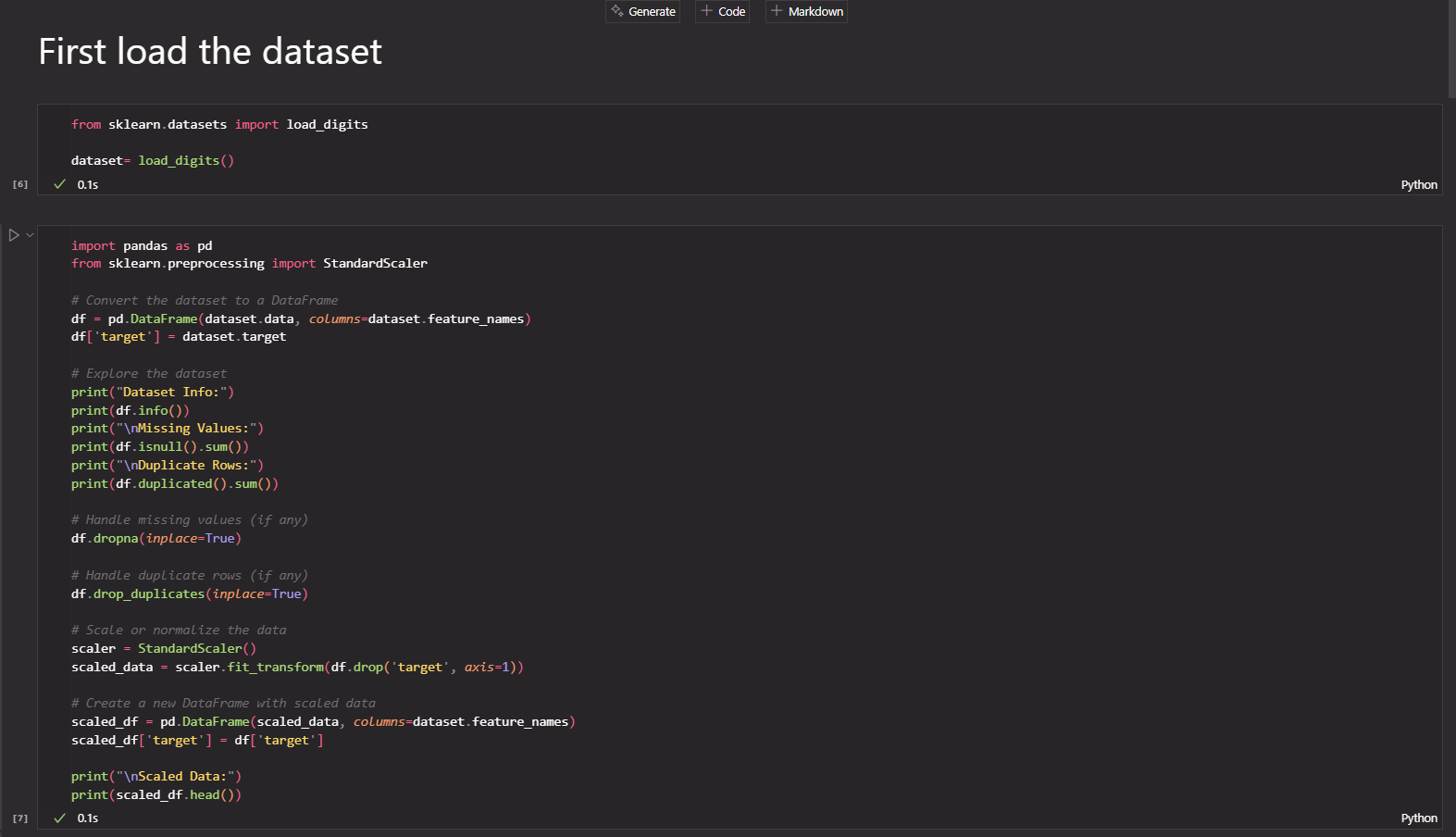
**Report of Task 2**

1. **Load Data and preprocessing**

****

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

1. **Apply Dimensionality Reduction and Visualization**

****

**Output:**

**A diagram of a colorful array

AI-generated content may be incorrect.**

**A diagram of a colorful dot pattern

AI-generated content may be incorrect.**

1. **Apply Clustering**

**A screen shot of a computer

AI-generated content may be incorrect.**

**Output:**

**A diagram of a cluster of colored dots

AI-generated content may be incorrect.**

**A diagram of a cluster of dots

AI-generated content may be incorrect.**

1. **Analyze the quality of clusters**

****

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**