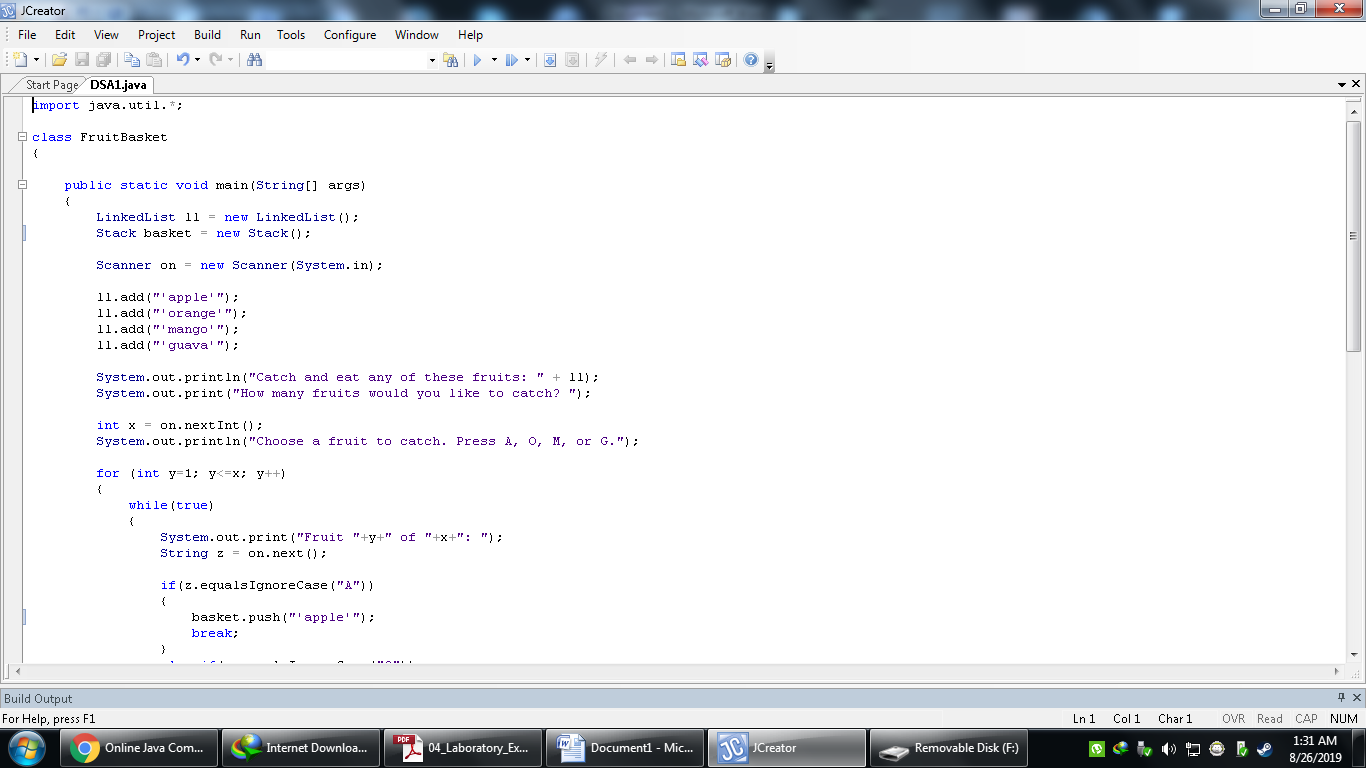
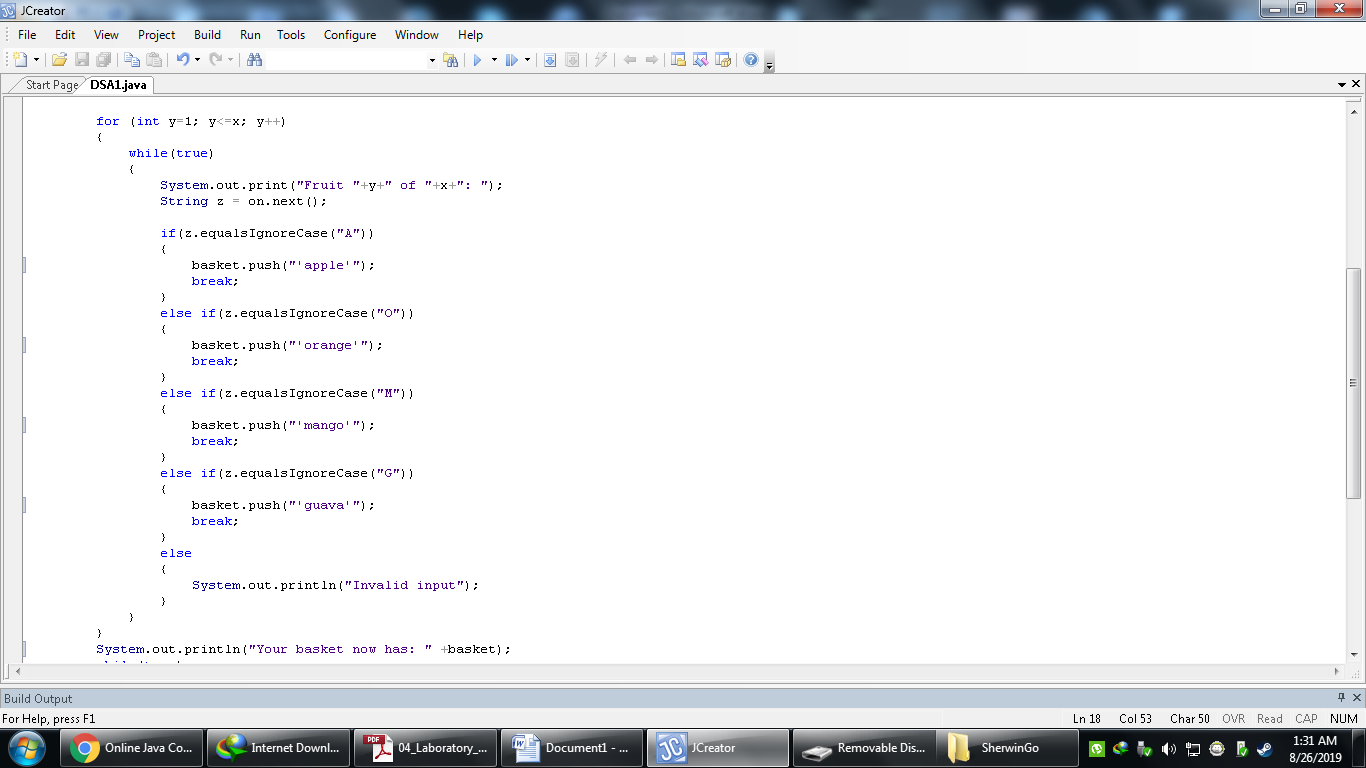
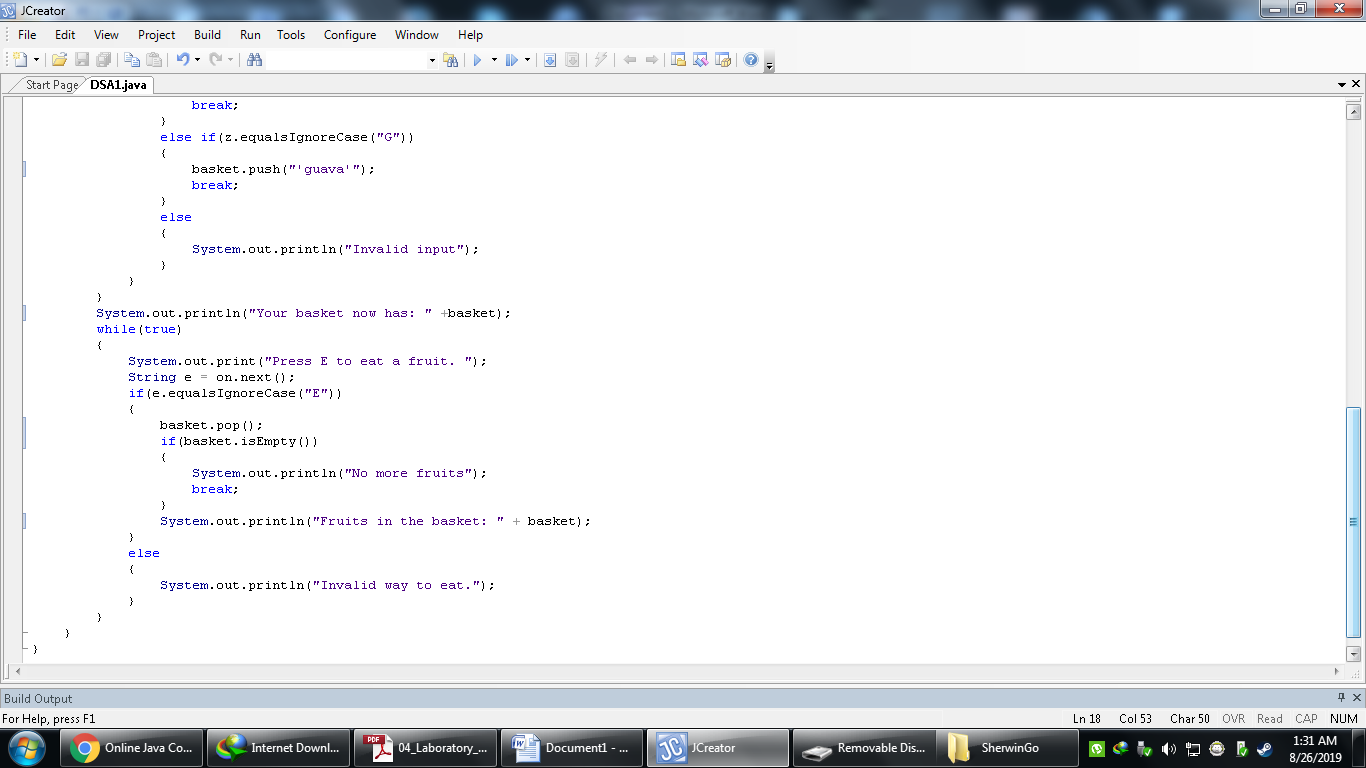
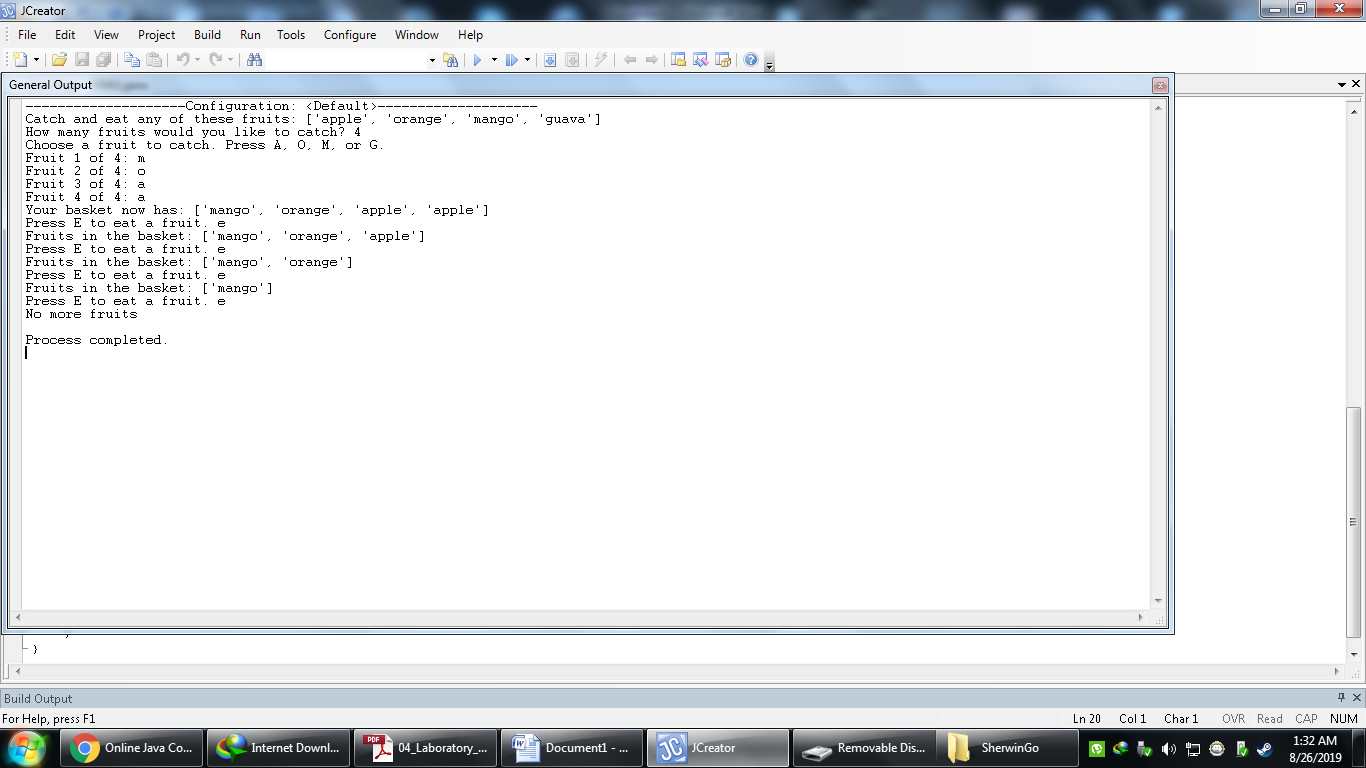
**Java Code:**

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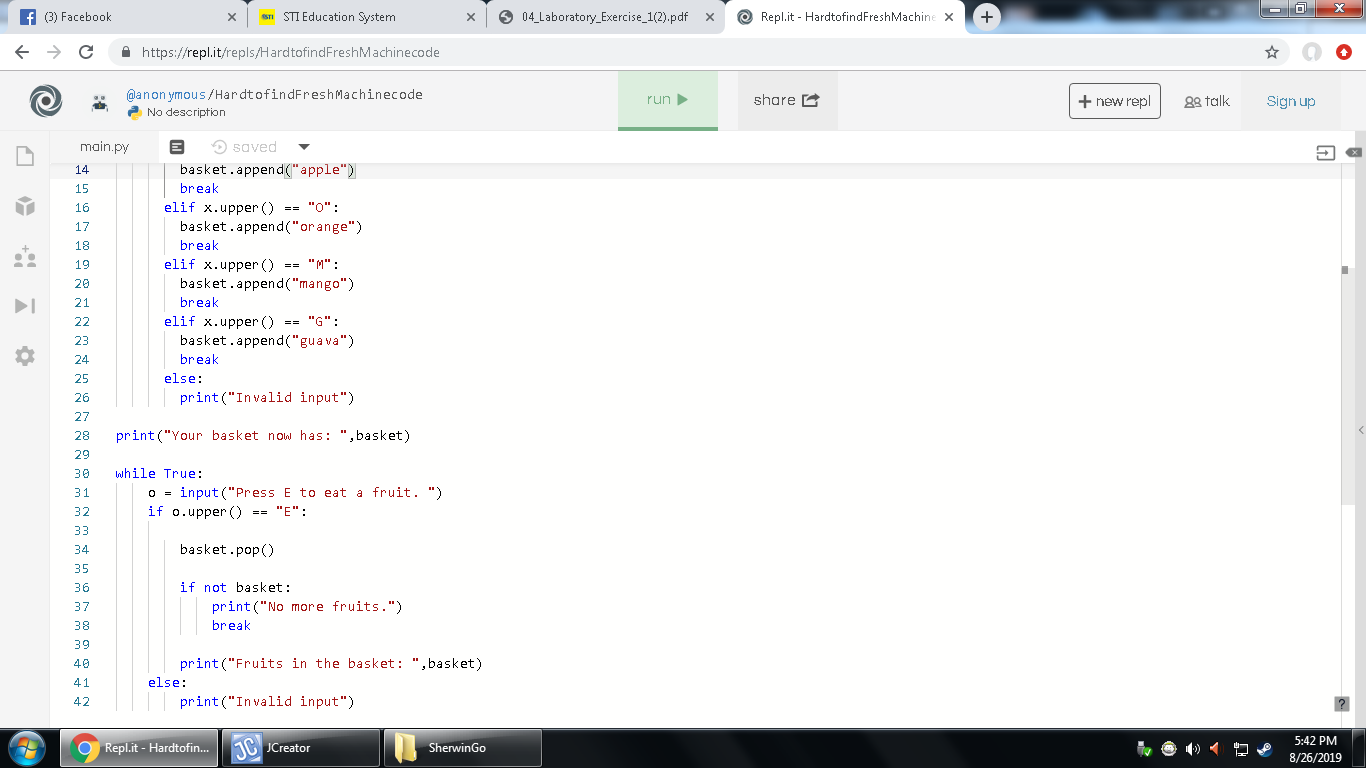
****

**Java Output:**

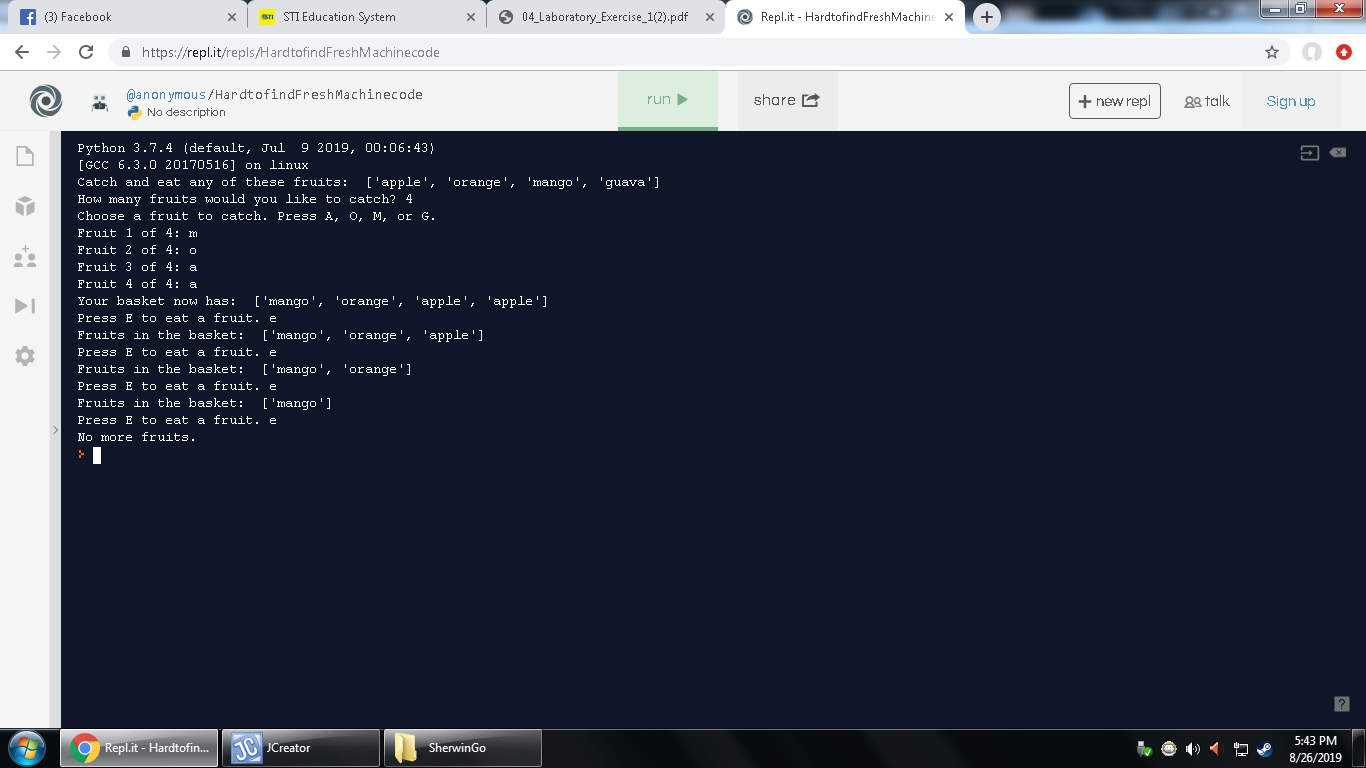
****

**Python Code:**

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**Python Output:**

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