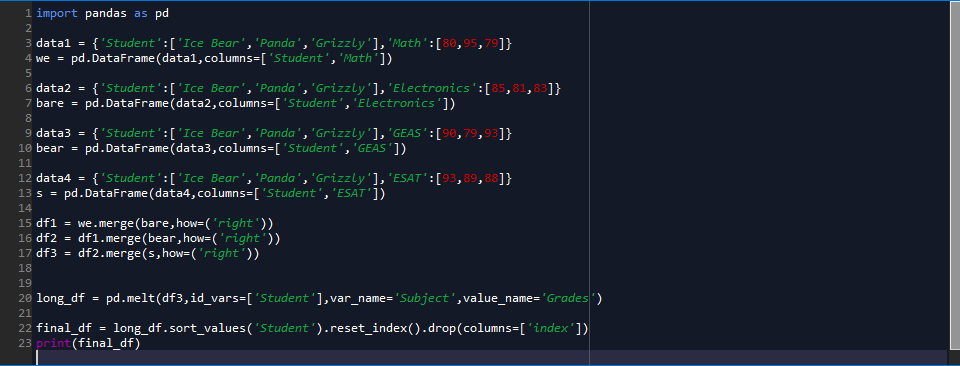
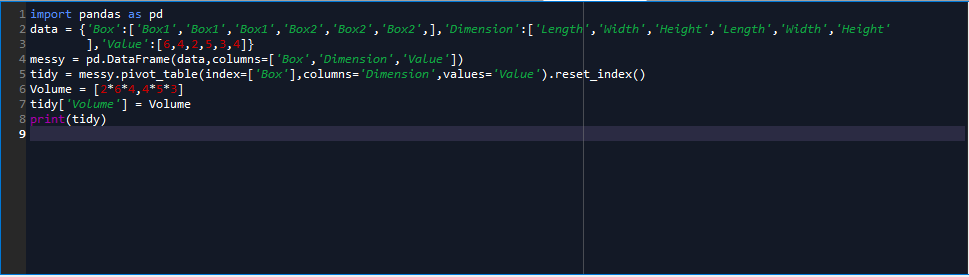
**Problem 1**

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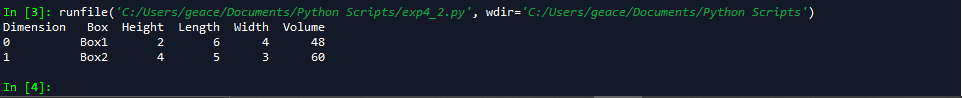
**Output**

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**Problem 3**

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**Output**

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