**Problem Statement:**

The objective of this seam carving algorithm is to perform content aware resizing of images. This allows image to be resized without losing meaningful content from cropping or scaling. The idea is to locate the image's optimal seams, connected pixel paths going from top to bottom or left to right, to remove or insert while preserving the photorealism of the image.

**Related Concepts:**

**Code:**

In this project, we have only one file named as SeamCarver.java. In this file, we implemented a five public methods which is energy(), findVerticalSeam(), findHorizontalSeam(), removeVerticalSeam() and removeHorizontalSeam().

Energy () is to find the energy of each pixel of the picture.

findVerticalSeam() in an image is a pathof pixels connected from the top to the bottom with one pixel in each row.

findHorizontalSeam() is a **path** of pixels connected from the left to the right with one pixel in each column.

removeVerticalSeam() are to remove the number of columns we given in input.

removeHorizontalSeam() are to remove the number of rows we given in input.

**Test Cases:**

According to course era, compilation, API, spot bugs and pmd are passed, but check style with warnings.

Correctness: 23/31 tests passed

Memory: 6/6 tests passed

Timing: 18/17 tests passed

Aggregate score: 85.69%

**Conclusion:**

I did the project and tested my code on course era.

Firstly, I got 0 and we did some modification in code. After trying some more times, finally I got 86 score. But I couldn’t get to know about remaining errors showing in course era which were the reasons not to get 100 score.