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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » [Image Signal Processing \(course\)](#)
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Programming assignment: Image transforms

Due on 2020-11-12, 23:59 IST

Click here (https://drive.google.com/file/d/19cup_1tBKuEzKN86Zq6GS6cmjVYMwENX/view?usp=sharing) for View the Question .

It is recommended to initially work on this assignment using Google Colaboratory ("Colab" for short is a free Jupyter notebook environment provided by Google that allows you to run Python in your browser). The introduction videos for Colab will be shared in discussion forum. Being said that, this is a recommended way to do the assignments. You can always directly work on NPTEL website.

Follow these instructions to work on the assignment in google-colab.

- Click on this Assignment-8 (<https://drive.google.com/file/d/1Whv-U1QQY84b5oyj6e9ZVtap4A5UxzTy/view?usp=sharing>) file.
- Make a copy of it in your drive.
- Right click and open the file using Google Colaboratory(You first need to log in to your google account).

When you're ready to verify/submit your assignment, paste the missing code snippets below.

Sample Test Cases

	Input	Output
Test Case 1	image transforms	ok
Test Case 2	image transforms	ok

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

- 2D DCT and Walsh-Hadamard Transform (unit?unit=23&lesson=78)
- Data Dependent Transforms, Karhunen Loeve Transform (unit?unit=23&lesson=79)
- Karhunen-Loeve Transform (KLT) - Concept (unit?unit=23&lesson=80)
- Karhunen-Loeve Transform (KLT) - Applications (unit?unit=23&lesson=81)
- Karhunen-Loeve Transform (KLT) - Applications (unit?unit=23&lesson=82)
- Singular Value Decomposition (SVD) (unit?unit=23&lesson=83)
- Programming assignment: Image transforms (/noc20_ee83/progassignment?name=124)**
- Programming assignment: SVD (/noc20_ee83/progassignment?name=127)
- Image Signal Processing : Week 8 Feedback Form (unit?unit=23&lesson=152)
- Lecture materials (unit?unit=23&lesson=169)
- Week 8 Solutions (unit?unit=23&lesson=182)

Week 9

Week 10

Week 11

Week 12

Tutorials

Download Videos

Live Session

**December 8 Programming
test - Session 1(10AM-11AM)**

**December 8 programming
test - Session 2 (8PM to
9PM)**