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reviewer5@nptel.iitm.ac.in ▾

[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » [Image Signal Processing \(course\)](#)
[Announcements \(announcements\)](#)
[About the Course \(preview\)](#)
[Ask a Question \(forum\)](#)
[Progress \(student/home\)](#)
[Mentor \(student/mentor\)](#)

## Programming assignment: Properties of DFT

**Due on 2020-11-05, 23:59 IST**

Click here (<https://drive.google.com/file/d/1-xktylxQFi5tSwTPfKFPtlinXP4yJco/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-7 (<https://drive.google.com/file/d/1Jpqyc-mOLIYZJV6awY-WR2pSlpJJuqH6/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	DFT image	ok
Test Case 2	DFT image	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

- Extending 1D Unitary Transform to 2D - Summary (unit?unit=25&lesson=72)
- 1D DFT to 2D DFT (unit?unit=25&lesson=73)
- 2D DFT Visualization (unit?unit=25&lesson=74)
- 2D DFT - Computation (unit?unit=25&lesson=75)
- 1D DCT - Definition, Motivation (unit?unit=25&lesson=76)
- Relation to DFT (unit?unit=25&lesson=77)
- Programming assignment: Properties of DFT (/noc20\_ee83/progassignment?name=123)**
- Image Signal Processing : Week 7 Feedback Form (unit?unit=25&lesson=156)
- Lecture Materials (unit?unit=25&lesson=174)
- Quiz : Quiz 1 (assessment?name=175)
- Week 7 Programming Assignment solutions (unit?unit=25&lesson=180)
- Quiz 1 solutions (unit?unit=25&lesson=181)

#### Week 8

#### Week 9

#### Week 10

#### Week 11

#### Week 12

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**Tutorials**

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**Download Videos**

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**Live Session**

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

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