coursera

Introducing Skills Network Labs

- ✓ **Reading:** What is Skills Network Labs?
  10 min

- ✓ **Reading:** Account Features
  10 min

- ✓ **Reading:** Creating an account.
  10 min

- ✓ **Ungraded External Tool:** Lab - Getting Started with Skills Network Labs
  1h

- ✓ **Ungraded External Tool:** Lab - Exploring My Data on Skills Network Labs
  1h

- ✓ **Practice Quiz:** Practice Quiz
  1 question

- ✓ **Quiz:** Quiz 1 - Skills Network Labs
  5 questions

Introducing Jupyter Notebooks

Welcome to Skills Network Labs, previously known as Data Scientist Workbench or BDU Labs. It's a free virtual lab environment that lets you practice your skills in Python, R, and more, while you learn data science.

Skills Network Labs is an environment that contains tools such as RStudio, Jupyter Notebook, and Zeppelin Notebook. These tools provides an interactive environment for you to perform data analysis, data visualization, machine learning and image recognition. For example, on Jupyter Notebook you can train a model that can recognize the denomination of an Euro banknote by using just the image of the banknote.

```
[16]:  # Generate test dataset and generate the prediction results

       test_valid_generator = ImageDataGenerator().flow_from_directory(validation_data_dir
                                                                       , target_size=(224, 224)
                                                                       , batch_size=5
                                                                       , classes=classes
                                                                       , seed=0
                                                                       , shuffle=False)
       Found 70 images belonging to 7 classes.
```

Create a test dataset using validation data. Plot 5 random images which index is in the `numbers` list. Also print the predicted la

```
[17]:  # Answer for Question 3.3: Plot five random images and their predictions
```


predicted: 200 (Mis-classified)

predicted: 50 (Correctly Classified)

predicted: 100 (Correctly Classified)

predicted: 200 (Correctly Classified)

predicted: 500 (Correctly Classified)