~\Desktop\New folder\Coding\Jupyter\Sem 4\nn\custom_alexnet.ipynb

```
8
   import os
9
10 | # Define the path to the directory where images are stored
   base dir = "rice leaf diseases"
11
12
13 # Define the diseases
   diseases = ["Brown spot", "Leaf smut", "Bacterial leaf blight"]
14
15
   # Create the directory rice leaf diseases 2 if it doesn't exist
16
   output_dir = "rice_leaf_diseases_2"
17
   os.makedirs(output_dir, exist ok=True)
18
19
20 # Loop through each disease
   for disease in diseases:
21
22
       # Create subdirectories for each disease in rice_leaf_diseases_2 if they don't exist
        disease dir = os.path.join(output dir, disease)
23
24
        os.makedirs(disease_dir, exist_ok=True)
25
26
        # Create an ImageDataGenerator for each disease
        datagen = ImageDataGenerator(
27
28
            rotation range=40,
29
            width shift range=0.2,
            height_shift_range=0.2,
30
31
            shear range=0.2,
32
            zoom range=0.2,
33
           horizontal_flip=True,
           fill mode='nearest',
34
35
            rescale=1./255,
            validation split=0.2
36
37
38
39
        # Load images for the current disease
       img dir = os.path.join(base dir, disease)
40
41
        img filenames = os.listdir(img dir)
42
43
        for img filename in img filenames:
            img path = os.path.join(img dir, img filename)
44
45
            img = load img(img path)
            x = img to array(img)
46
```