	oll Number	2116190701177	
Download the	Dataset		
import tensorflow as from tensorflow.keras from tensorflow.keras import matplotlib.pyp	s import layers s.models import Sequential		
<pre>import os batch_size = 16</pre>			
Image Augme			
<pre>data_aug = Sequential { layers.RandomFlip layers.RandomRota layers.RandomZoom }</pre>	o("horizontal",input_shape=(180, 180, 3)), stion(0.1),		
os.listdir("C:\\Users ['flowers']	s\\Sai12\\Flowers-Dataset")		
"C:\\Users\\Harini\ validation_split=0. subset="training", seed=120, image_size=(180, 18 batch_size=batch_siz	25, 80), gel		
"C:\\Users\\Harini\\ validation_split=0.2 subset="validation" seed=120, image_size=(180, 18	<pre>training. ras.utils.image_dataset_from_directory(Flowers-Dataset", 25, 30),</pre>		
batch_size=batch_siz Found 4317 files belom Using 1079 files for v class_names = train_d	nging to 1 classes. Validation.		
<pre>plt.figure(figsize=(1 for images, labels in for i in range(6): ax = plt.subplot(</pre>	15, 15)) train_data.take(1): (3, 3, i + 1) [i].numpy().astype("uint8"))		
0	flowers 0 20 20 40 - 40 - 40 - 40 - 40 - 40 - 4	flowers 10	
40 60 80 100 120 140 160 50 100 normalization_layer =	40 - 40 - 60 - 60 - 60 - 80 - 100 - 120 - 140 - 140 - 140 - 160 - 0 50 100 150 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -		
dataset_normalized = image_batch, labels_b first_image = image_b	train_data.map(lambda x, y: (normalization_layer(x), y)) atch = next(iter(dataset_normalized)) atch[0]		
print(np.min(first_im 0.0 1.0 Create Model	aage), np.max(first_image))		
	axPooling,Flatten,Dense-(Hidden Layers),Output)		
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In [20]: img=image.load_img('C:\\Users\\Sai12\\Flowers-Dataset\\flowers\\rose\\5172171681_5934378f08.jpg',target_size=(70,70)) img

Out[20]:

In []: