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Congrats Daniel! This project has been marked as completed.

Project Rating

★★★★★

Teacher's Comment

"Well Done!!!"

-

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Class Summary

This project is based on your last class PRO-C105

View Class Summary

PRO-C105: VIDEO ALBUM Completed

In Class 105, You Created A Video Using Multiple Images With The Help Of Opencv In Python. In Today's Project, You Will Create A Video Album With 10-20 Images.

Goal of the Project:

In Class 105, you created a video using multiple images with the help of OpenCV in Python. In today's project, you will create a video album with 10-20 images.

Story:

Friendship day is coming up soon, and you want to make a special video with pictures you have with all your friends. Use your Python skills to write a program that will create a video with the images provided.

*This is just for your reference. We expect you to apply your own creativity to the project.

Getting Started:

1. Create a folder as **Project105**
2. Open the folder **Project105** in **VSC**
3. Choose 10-20 images of your friends and move them to the Images folder inside Project105
4. Or you can download sample images from here.

Specific Tasks to complete the Project:

1. Import **os & cv2** in **CreateVideo.py** file.
2. Set a **path** for the Images folder.

```
path = "Images/"
```

3. Created a list variable named **Images = [ ]**
4. Using **for loop** to check each file in the folder using **os.listdir(path)**
5. For each file name, use **os.splitext(file)** to separate the name and extension from a file name.
6. Create an **if** condition to check if the extension of the file matches with the image extension.

Ask a doubt to your tea

HELP

- Create a variable **file_name** by concatenating the **path "/"** and **file** name(Includes both name and extension).

```
if ext in ['.gif', '.png', '.jpg', '.jpeg','.jfif']:
    file_name = path+"/"+file
```

7. Use **print(file_name)** to make sure filenames are formed correctly.
8. Add each file in the **images** list using **.append()**
9. Create a variable **count** to store **len(images)**
10. Create a variable named frame to read the first image from the images list. **frame = cv2.imread(images[0])**
11. Use **frame.shape** to capture **width, height & Channels**
12. Create a tuple variable size using width, height.

```
size = (width,height)
```

13. Use **print(size)** to check the result.
14. Create a variable **out**.
    - Assign with **cv2,VideoWriter()**
    - **video name = Project.avi**
    - **fourcc = cv2.VideoWriter_fourcc(*'DIVX')**
    - **fps = 0.8**
    - **Size = size**

```
out = cv2.VideoWriter('project.avi',cv2.VideoWriter_fourcc(*'DIVX'), 0.8, size)
```

15. Create a **for loop** to add images to a videowriter.
    - **for i in range(0, count-1)**
    - Use **cv2.imread()** to reach each image
    - Add the image in Video using **out.write()**
16. Print a message to know the video is complete as **print("Done")**

Submitting the Project:

1. **SAVE** all the changes made to the project.
2. Click on **"Run"** once to check if it is working.
3. Open the GitHub create a repository named **Project105**
4. Upload files **Create_Video.py & Project.avi video** and click **Commit Changes**
5. Copy this link and submit it in the Student Dashboard Projects panel against the correct class number.

HELP