

CS 6375

Assignment 4:

Names of students in your group:

ADRITA DUTTA:axd172930

CHIRAG SHAHI:cxs180005

Number of free late days used: **0**

Note: You are allowed a total of 4 free late days for the entire semester. You can use at most 2 for each assignment. After that, there will be a penalty of 10% for each late day.

Please list clearly all the sources/references that you have used in this assignment.

References:

References provided in question

Part 3-2:

1.The code is developed in Python.

2. Run code in the format:

```
python Part3-2.py image1.jpg image2.jpg image3.jpg image4.jpg image5.jpg
```

3. The image outputs are present in the output image folder.

Image	Original Size	Value of Principle component	Image Quality	Output image Size
Image1	355KB	5	Extremely Blurred	138KB
Image1	355KB	25	Blurred	204KB
Image1	355KB	125	Less Blurred than 25	278KB
Image2	536KB	5	Extremely blurred	151KB
Image2	536KB	25	Less Blurred than 5	220KB
Image2	536KB	125	Almost like original	299KB
Image3	598kB	5	Extremely blurred	159KB
Image3	598kB	25	Blurred	238KB
Image3	598kB	125	Less Blurred than 5	334KB
Image4	252KB	5	Extremely Blurred	112KB
Image4	252KB	25	Blurred	117KB
Image4	252KB	125	Almost like original	137KB
Image5	279KB	5	Extremely blurred	154KB
Image5	279KB	25	Less Blurred than 5	212KB
Image5	279KB	125	Less Blurred than 25	259KB