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Welcome to week-4 quiz and problem solving activity.

Quiz: Attempt the quiz as many times as you need to score more than 85% and then take a screen-shot of your score and add it in your report that you are going to submit as a part of pass task in OnTrack.

SIT307

We can find the quiz link by clicking on this [SIT305-Week 4-Quiz](#)

SIT720

We can find the quiz link by clicking on this [SIT720-Week 4-Quiz](#).

Problem solving activity: Solve the following set of problems using Python and submit the code file with extension .ipynb in OnTrack as part of your pass activity.

1. Download and read the dataset "[dataset.csv](#)" and apply PCA for generating 10 principal components. Plot first three components of the PCA.
2. What is the variance (%) covered by first 5 components? How is this percentage of variance computed?
3. Is there any correlation between these five components?

SIT 720

[Answer the 3 questions given in the above section (SIT307) and then answer the following questions.]

4. Apply t-SNE (method exact) on the same dataset for same number of components used in PCA and plot first three components.
5. Report the comparison between the kmeans results obtained using t-SNE and PCA.

Note: any external links in this unit will take you to third-party websites, which may ask for your personal details. Please read our [privacy policy](#) for more information.

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