Centurion	School:	Campus:
	Academic Year: Subject Name:	Subject Code:
UNIVERSITY Shaping Evers Empowering Communities	Semester: Program:	Branch: Specialization:
	Date: Applied and	Action Learning

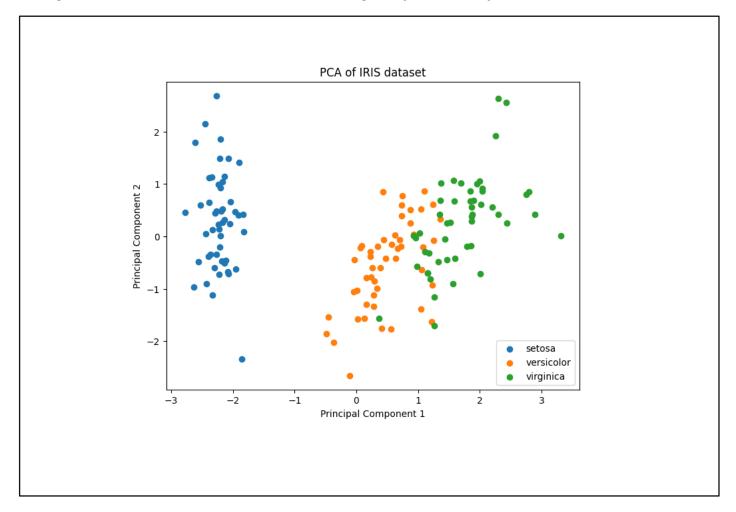
Applied and Action Learnin (Learning by Doing and Discovery)

Name of the Experiement :

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

```
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.datasets import load_iris
from sklearn.preprocessing import StandardScaler
from sklearn.decomposition import PCA
iris = load_iris()
X = iris.data
y = iris.target
target_names = iris.target_names
X_scaled = StandardScaler().fit_transform(X)
pca = PCA(n_{components=2})
X_pca = pca.fit_transform(X_scaled)
plt.figure(figsize=(8, 6))
for i, target_name in enumerate(target_names):
  plt.scatter(X_pca[y == i, 0], X_pca[y == i, 1],
label=target_name)
plt.title('PCA of IRIS dataset')
plt.xlabel('Principal Component 1')
plt.ylabel('Principal Component 2')
plt.legend()
plt.show()
```

* Implementation Phase: Final Output (no error)



ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Signature of the Faculty: Regn. No. :

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