**Assignment 6**

**Roll no. : A-44**

**Subject: DAP**

**Code:**

import pandas as pd

import numpy as np

dataset = pd.read\_csv('Cricketers.csv')

sample\_size = 10

if sample\_size > len(dataset):

print("Sample size is larger than the dataset size. Adjust sample size.")

exit()

np.random.seed(7)

sample\_indices = np.random.choice(len(dataset), size=sample\_size, replace=False)

representative\_sample = dataset.iloc[sample\_indices]

print("Representative Sample:")

print(representative\_sample)

**Output:**

Representative Sample:

Name Type Avergae Strike rate Economy

1 Virat kohli Batsman 58.6 80 10.3

17 Shivam Dube All rounder 74.6 96 5.8

2 Rohit Sharma Batsman 59.6 81 9.2

5 Shubhman Gill Batsman 62.6 84 NaN

11 Shardul Thakur All rounder 68.6 90 0.2

0 MS dhoni Wk batsman 57.6 79 NaN

18 Bhuvi Bowler 75.6 97 6.8

6 Yashaswi jaiswal Batsman 63.6 85 5.2

13 SKY Batsman 70.6 92 NaN

19 Yuzi Chahal Bowler 76.6 98 7.8