```
import pandas as pd
```

```
df=pd.read_excel("Crowdfunding_data_1000_projects (2).xlsx")
```

1. Use Pandas functions head() and tail(), and create two data-frames with top 70 % records in the first data-frame, and remaining 30% records in the second data-frame (2 points).

```
df1=df.head(700)
```

```
df2=df.tail(300)
```

```
print("Train : ",len(df1))
print("Test  : ",len(df2))
```

```
Train :  700
Test  :  300
```

2. Use Pandas functions sample() and drop(), and create two data-frames with random 70% of records in the first data-frame and remaining 30% of records in the second data-frame (4 points).

```
df3=df.sample(700)
```

```
df4=df.drop(index=df3.index)
```

```
print("Train : ",len(df3))
print("Test  : ",len(df4))
```

```
Train :  700
Test  :  300
```

3. Use Scikit-learn package and create two data-frames with random 70% of records in the train data-frame and remaining 30% of records in test data-frame (4 points).

```
from sklearn.model_selection import train_test_split
```

```
df5,df6=train_test_split(df,test_size=0.3)
```

```
print("Train : ",len(df5))
print("Test  : ",len(df6))
```

```
Train :  700
Test  :  300
```

```
1
```