```
# Import your libraries and data
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score
data = pd.read_csv('C:/Users/PandaBas/Desktop/Personal/Teaching/5thSem_PartA
/bank marketing.csv')
data.head()
# Choose the dependent and Independent variables
X = data[['age','marital','ever_defaulted','housing_loan','Personal_loan']]
Y = data[['y']]
# Train, test/validation split
X_train, X_test, y_train, y_test = train_test_split(X,Y, test_size = 0.20,
random_state = 42)
test_df = pd.concat ([X_test,y_test],axis =1 )
# Initialize and train your model
clf = RandomForestClassifier(random_state = 42)
clf.fit(X_train, y_train)
# Predict the test data based on the trained model
rf_pred = clf.predict(X_test)
accuracy_score(y_test, rf_pred)
```