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Code

please provide us feedback at <https://github.com/pandas-dev/pandas/issues/54466>

```
import pandas as pd
```

```
[2]: #!pip install xgboost
```

```
•[3]: def impFeature(indep_X,dep_Y,n):
        implist=[]
        featurexgb = XGBClassifier()
        RF = RandomForestClassifier(n_estimators = 10, criterion = 'entropy', random_state=42)
        importFeature_lasso=Lasso(alpha=0.1)

        impmodellist=[featurexgb,RF,importFeature_lasso]

        for i in impmodellist:
            print(i)
            log_imp = permutation_importance(estimator=i, n_features_to_select=n, X=indep_X, y=dep_Y, scoring='log_loss')
            log_fit = log_imp.fit(indep_X, dep_Y)
            log_imp_feature=log_fit.transform(indep_X)
            implist.append(log_imp_feature)
        return implist
```

```
[4]: def split_scalar(indep_X,dep_Y):
        X_train, X_test, y_train, y_test = train_test_split(indep_X, dep_Y, test_size = 0.2, random_state=42)
        #X_train, X_test, y_train, y_test = train_test_split(indep_X, dep_Y, test_size = 0.2, random_state=42)
```