```
#works
```

```
import numpy
from sklearn import datasets
from sklearn.model_selection import train_test_split
from sklearn.svm import SVC
from sklearn.linear_model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score
```

```
C:\Users\ROHITH SYAM\anaconda3\New folder\lib\site-packages\scipy\__init__.py:155: UserWarning: A NumPy version >=1.18.5 and <1.25.6
  warnings.warn(f"A NumPy version >={np_minversion} and <{np_maxversion}"
```

```
iris=datasets.load_iris()
X=iris.data
y=iris.target
X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.4, random_state=42)
```

```
lr_classifier=LogisticRegression(max_iter=1000)
svm_classifier=SVC()
rf_classifier=RandomForestClassifier(random_state=42)
```

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```
lr_classifier.fit(X_train,y_train)
svm_classifier.fit(X_train,y_train)
rf_classifier.fit(X_train,y_train)
```

```
RandomForestClassifier(random_state=42)
```

```
y_pred_lr=lr_classifier.predict(X_test)
y_pred_svm=svm_classifier.predict(X_test)
y_pred_rf=rf_classifier.predict(X_test)
```

```
acc_lr = accuracy_score(y_test, y_pred_lr) * 100
acc_svm = accuracy_score(y_test, y_pred_svm) * 100
acc_rf = accuracy_score(y_test, y_pred_rf) * 100
```

```
print("Accuracy of Logistic Regression:", f"{acc_lr:.2f}%")
print("Accuracy of SVM:", f"{acc_svm:.2f}%")
print("Accuracy of Random Forest:", f"{acc_rf:.2f}%")
```

```
Accuracy of Logistic Regression: 100.00%
Accuracy of SVM: 100.00%
Accuracy of Random Forest: 98.33%
```