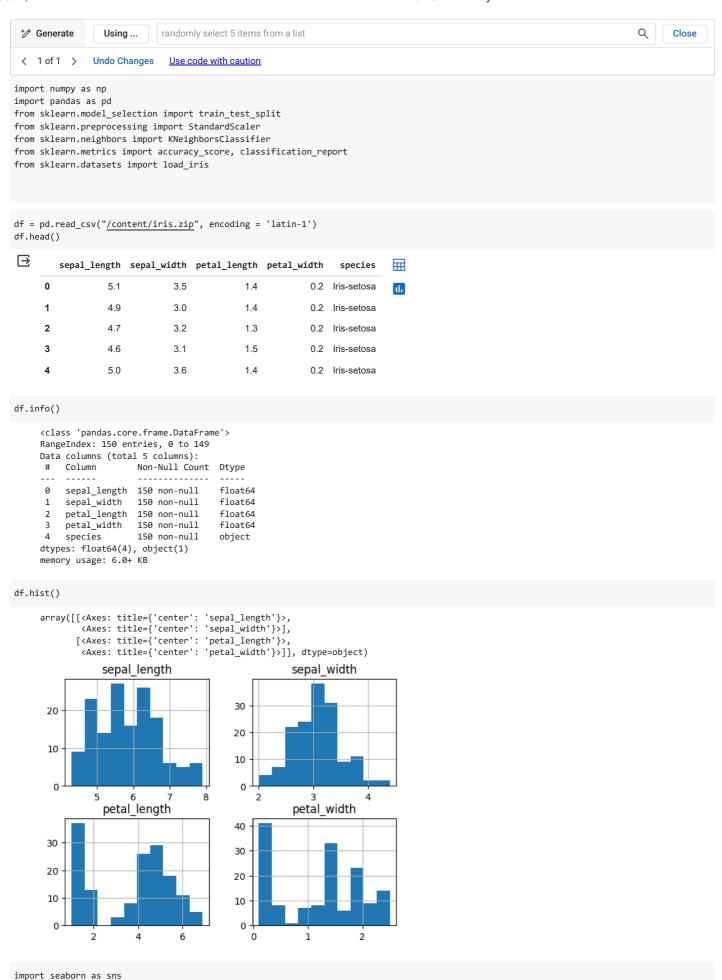
sns.heatmap(df.corr())



```
<ipython-input-6-534f4f3c80b7>:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future versions.heatmap(df.corr())
```

```
- 0.8
- 0.6
- 0.4
- 0.2
- 0.0
- 0.0
- 0.0
- 0.0
```

```
iris = load_iris()
data = pd.DataFrame(data= np.c_[iris['data'], iris['target']], columns= iris['feature_names'] + ['target'])

X = data.drop('target', axis=1)
y = data['target']

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)

k = 3
knn_classifier = KNeighborsClassifier(n_neighbors=k)
knn_classifier.fit(X_train_scaled, y_train)

* KNeighborsClassifier
KNeighborsClassifier(n_neighbors=3)
```

```
y_pred = knn_classifier.predict(X_test_scaled)
```

```
accuracy = accuracy_score(y_test, y_pred)
report = classification_report(y_test, y_pred)
print(f"Accuracy: {accuracy}")
print("Classification Report:\n", report)
```

Accuracy: 1.0 Classification	n Report:	recall	f1-score	cuppont
	precision	recarr	TI-Score	support
0.0	1.00	1.00	1.00	10
0.0	1.00	1.00	1.00	10
1.0	1.00	1.00	1.00	9
2.0	1.00	1.00	1.00	11
accuracy			1.00	30
macro avg	1.00	1.00	1.00	30
weighted avg	1.00	1.00	1.00	30