In [1]:
```
import pandas as pd
from sklearn.linear_model import LogisticRegression
from sklearn.svm import SVC
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import VotingClassifier
from sklearn.model_selection import cross_val_score,KFold
import warnings
warnings.filterwarnings("ignore")
```

In [2]:
```
data=pd.read_csv('diabetes.csv')
data.head()
```

Out[2]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcom
0	6	148	72	35	0	33.6	0.627	50	
1	1	85	66	29	0	26.6	0.351	31	
2	8	183	64	0	0	23.3	0.672	32	
3	1	89	66	23	94	28.1	0.167	21	
4	0	137	40	35	168	43.1	2.288	33	

In [3]:
```
array=data.values
```

In [4]:
```
x=array[:,0:8]
y=array[:,8]
```

In [5]:
```
model1=DecisionTreeClassifier()
model2=LogisticRegression()
model3=SVC()
```

In [6]:
```
ess=[]
ess.append(("logistic regression",model1))
ess.append(("svm",model2))
ess.append(("decision tree",model3))
```

In [7]:
```
esemble=VotingClassifier(ess)
```

In [8]:
```
kfold=KFold(n_splits=10)
```

In [9]:
```
result=cross_val_score(estimator=esemble,X=x,y=y,cv=kfold)
```

In [10]:
```
result.mean()
```

Out[10]:
```
0.7564935064935066
```