

Some of the trials for ques 3 part b.

```
rtree = RandomForestClassifier(n_estimators=15, criterion='gini', max_depth=20,  
min_samples_leaf=6, min_samples_split=10)
```

73.39400

```
grad = GradientBoostingClassifier(n_estimators=30, learning_rate=0.1,max_depth=9,  
random_state=0)
```

75.75800

```
rtree = RandomForestClassifier(n_estimators=40, criterion='gini', max_depth=20,  
min_samples_leaf=6, min_samples_split=10)
```

74.86800

```
grad = GradientBoostingClassifier(n_estimators=40, learning_rate=0.1,max_depth=9,  
random_state=0)
```

75.92200

```
rtree = RandomForestClassifier(n_estimators=80, criterion='gini', max_depth=25,  
min_samples_leaf=6, min_samples_split=10)
```

75.08600

```
ada = AdaBoostClassifier(n_estimators=40)
```

53.43600,

```
grad = GradientBoostingClassifier(n_estimators=8, learning_rate=0.1,max_depth=8,  
random_state=0)
```

74.38

```
grad = GradientBoostingClassifier(n_estimators=9, learning_rate=0.2,max_depth=8,  
random_state=0)
```

74.47

```
grad = GradientBoostingClassifier(n_estimators=60, learning_rate=0.1,max_depth=10,  
random_state=0)
```

76.30400

```
grad = GradientBoostingClassifier(n_estimators=30, learning_rate=0.1,max_depth=20,  
random_state=0)
```

73.192

```
rtree = RandomForestClassifier(n_estimators=120, criterion='gini', max_depth=25,  
min_samples_leaf=6, min_samples_split=10)
```

75.36200

```
from sklearn.ensemble import RandomForestClassifier  
rtree = RandomForestClassifier(n_estimators=150, criterion='gini', max_depth=28,  
min_samples_leaf=6, min_samples_split=10)
```

75.47600

```
clf = QuadraticDiscriminantAnalysis()
```

76.69600

```
extra = ExtraTreesClassifier(n_estimators=50, max_depth=20, min_samples_leaf=6,  
min_samples_split=10, random_state=0)
```

74.32

```
clf = QuadraticDiscriminantAnalysis(reg_param=0.1)
```

77.18200

LinearRegression

53.07400

SVM Gaussian: kernel rbf, gamma 0.012, C 1

72.9

```
clf = QuadraticDiscriminantAnalysis(tol=1.0e-2, reg_param=0.08)
```

77.27