

```
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.2 is 1.0
Standard deviation across 10-cross validation for 0.2 is 0.0
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.25 is 1.0
Standard deviation across 10-cross validation for 0.25 is 0.0
```

```
mmvc@a1-m1-lt-116:~/Uttam_decision_tree$ clear
```

```
mmvc@a1-m1-lt-116:~/Uttam_decision_tree$ python3 decision_tree_ukm202.py
Please press 1 for 'iris.csv' and 2 for 'spambase.csv': 1
```

```
150
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.8
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.8666666666666667
Accuracy is 0.9333333333333333
Accuracy is 0.8666666666666667
Accuracy is 0.9333333333333333
Accuracy is 1.0
Accuracy across 10-cross validation for 0.05 is 0.9266666666666667
Standard deviation across 10-cross validation for 0.05 is 0.06629526173411687
```

```
150
Accuracy is 0.9333333333333333
Accuracy is 0.8
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.8666666666666667
Accuracy is 1.0
Accuracy is 0.8666666666666667
Accuracy across 10-cross validation for 0.1 is 0.9266666666666667
Standard deviation across 10-cross validation for 0.1 is 0.06629526173411687
```

```
150
Accuracy is 0.8666666666666667
Accuracy is 0.8666666666666667
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.8666666666666667
Accuracy across 10-cross validation for 0.15 is 0.9333333333333333
Standard deviation across 10-cross validation for 0.15 is 0.05443310539518172
```

```
150
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
```

```
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy across 10-cross validation for 0.2 is 0.9533333333333334
Standard deviation across 10-cross validation for 0.2 is 0.032203059435976525
```

```
150
Accuracy is 0.9333333333333333
Accuracy is 0.8
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 0.9333333333333333
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 0.9333333333333333
Accuracy across 10-cross validation for 0.25 is 0.9466666666666669
Standard deviation across 10-cross validation for 0.25 is 0.06126243889817875
```

```
mmvc@a1-ml-1t-116:~/Uttam_decision_tree$ python3 decision_tree_ukm202.py
Please press 1 for 'iris.csv' and 2 for 'spambase.csv': 2
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.05 is 1.0
Standard deviation across 10-cross validation for 0.05 is 0.0
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.1 is 1.0
Standard deviation across 10-cross validation for 0.1 is 0.0
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.15 is 1.0
Standard deviation across 10-cross validation for 0.15 is 0.0
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
```

```
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.2 is 1.0
Standard deviation across 10-cross validation for 0.2 is 0.0
```

```
1800
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy is 1.0
Accuracy across 10-cross validation for 0.25 is 1.0
Standard deviation across 10-cross validation for 0.25 is 0.0
```

```
mmvc@a1-m1-lt-116:~/Uttam_decision_tree$
```