Confusion Matrix result of Random Forest Classification algorithm:

	precision	recall	f1-score	support
0	0.93	0.92	0.92	85
1	0.86	0.88	0.87	49
accuracy			0.90	134
macro avg	0.89	0.90	0.90	134
weighted avg	0.90	0.90	0.90	134

1)What is the overall performance of the model?

The accuracy is 0.90

2) What is the Percentage of correct classification of both purchased and not purchased?

Accuracy:0.90

3)What is the percentage of correct classification of Purchased item to the total input in the test set?

Recall: Purchased =0.88

4) What is the percentage of correct classification of non purchased to the total input in the test set?

Recall Non Purchased=0.92

5) what is the percentage of correct classification of purchased to the sum of correctly purchased & wrongly classified as purchased in the test set?

Precision Purchased=0.86

6) what is the percentage of correct classification of purchased to the sum of correctly Not purchased& wrongly classified as Not purchased in the test set?

Precision Not Purchased=0.93

7) i.what is the value of f1-measure of purchased?
ii.What is the overall performance of purchased?

F1 score purchased=0.87

8) i.what is the value of f1-measure of Not purchased?
ii.What is the overall performance of Not purchased?

F1 score not purchased=0.92

9) i.What is the macro average of precision?
ii.What is the average performance of precision
iii.What is the average performance of correct & wrongly classified ?

macro avg(Precision)=0.89

10) i.What is the macro average of recall?
ii.What is the average performance of correctly classified ?

macro avg(Recall)=0.90

11)i. What is the macro average of f1-measure?
ii.What is the average performance f1-measure ?

macro avg(f1 score)=0.90

12) i. what is the sum of product of proportion rate of each class?
iiwhat is the sum of product of weight of each class?

weighted avg(Precision)=0.90
weighted avg(Recall)=0.90
weighted avg(f1 score)=0.90