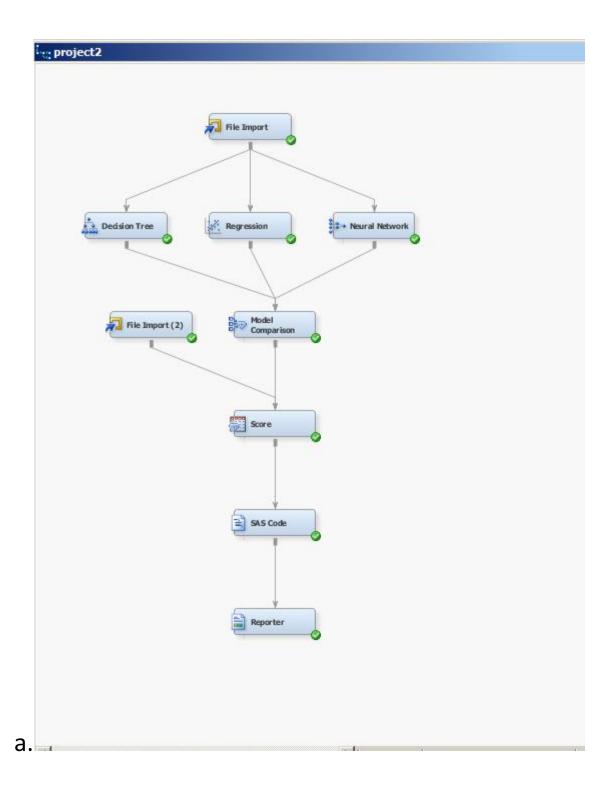
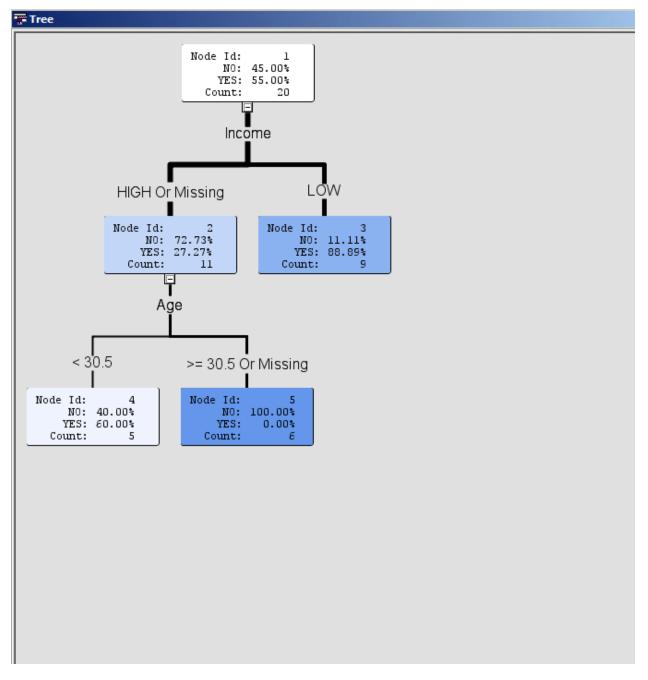
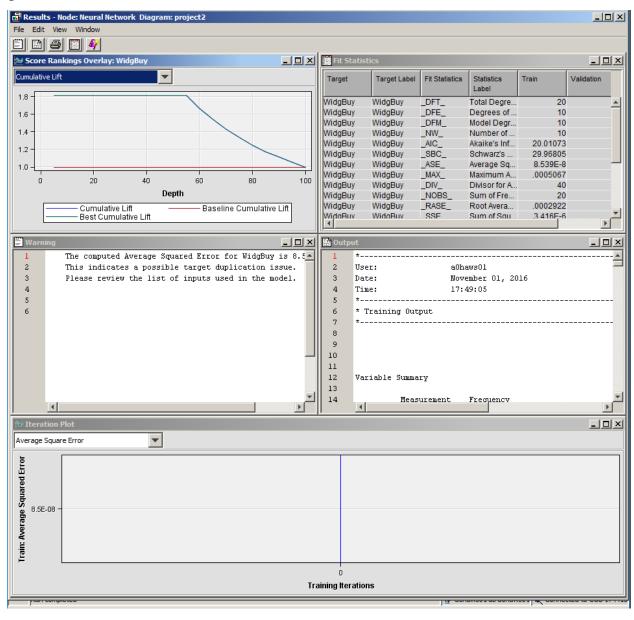
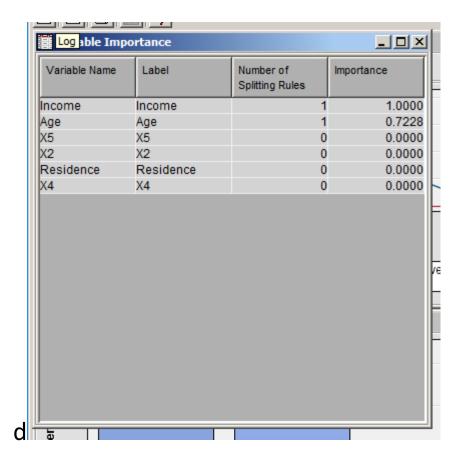
Alaa Hawsawi

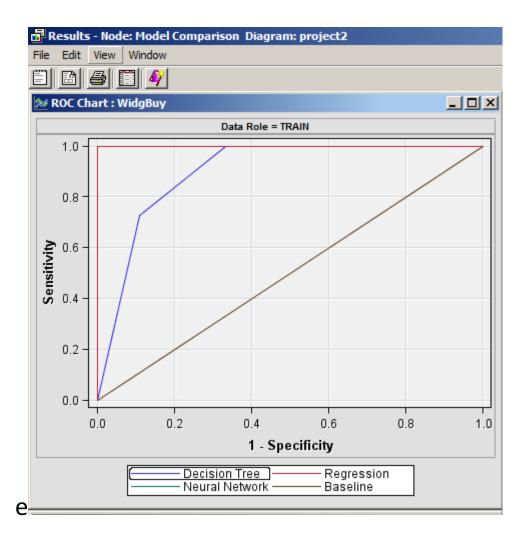
In the result, each model gave me different results because they use different way to calculate. I found the decision tree model is the easier way to understand by just looking to diagram you will have a full understanding. The importance of variables shows that only income and age were the best way to spilt because they have numbers. The chart shows that regression and neural models have the same variables but not the decision tree. There was 6 out of 9 cases were for Non-widget buyers and most of them with high income.











```
🛂 Node F Print
     *-----*
 2
     Node = 3
 3
     if Income IS ONE OF: LOW
 5
     then
     Tree Node Identifier = 3
 6
 7
     Number of Observations = 9
     Predicted: WidgBuy=Yes = 0.89
 8
     Predicted: WidgBuy=No = 0.11
 9
10
11
12
     Node = 4
13
     *-----*
14
     if Income IS ONE OF: HIGH or MISSING
15
     AND Age < 30.5
16
     then
17
     Tree Node Identifier = 4
18
     Number of Observations = 5
19
     Predicted: WidgBuy=Yes = 0.60
20
     Predicted: WidgBuy=No = 0.40
21
22
     *-----<del>*</del>
23
     Node = 5
24
     if Income IS ONE OF: HIGH or MISSING
25
26
     AND Age >= 30.5 or MISSING
27
     then
28
     Tree Node Identifier = 5
29
     Number of Observations = 6
30
     Predicted: WidgBuy=Yes = 0.00
31
     Predicted: WidgBuy=No = 1.00
32
33
```

