HW 3- CS 549 Nipuni

AdaBoost97 – Implementation of Ada Boost Algorithm Weak learner- Decision Tree -depth1

AdaBoost97SVM – Implementation of Ada Boost Algorithm Weak learner - Support vector Machine

```
Python Console
dataset X shape: (1797, 64)
dataset y(target) shape: (1797,)
dataset y(target) classes: [0 1 2 3 4 5 6 7 8 9]
digits :
[0 1 2 3 4 5 6 7 8 9]
odd-even classification:
[-1.0, 1.0, -1.0, 1.0, -1.0, 1.0, -1.0, 1.0, -1.0, 1.0]
predictions
AdaBoost97 :
[-1 -1 1 1 1]
AdaBoost97SVM :
[1-1 1-1 1]
SK Adabt :
[-1. -1. 1. 1. 1.]
Accuracy of the test set 97:0.8
Accuracy of the test set 97SVM :0.4
Accuracy of the test set Sklearn AB:0.894444444444445
        AdaBoost97-DecisionTree
                                           AdaBoost97-SVM
 0.45 -
                                 0.45
                                 0.40
 0.40
```

