Set 4

1. Analyze dataset (mushrooms.csv) classify the type of mushroom with SVM classifier using python

a. Analyze the data and explore missing values
b. Visualize the significant features by its distribution.
c. Handle outliers and plot it.
d. Apply feature scaling and also balance data
e. Build model using SVM classifier
f. Run SVM with RBF kernel, Polynomial kernel and Sigmoid kernel
g. Train the model
h. Summarize performance of the model using confusion matrix
i. Analyze the model and visualize it with ROC
j. Evaluate the model performance with classification report.

2. Create customer table with the following schema using MongoDB and implement the following:
(customer_id, acc_name, accountno, phoneno,email,branchname,balance)
Note: Insert 10 records.

a. Display all the details of customer who belong to specific location.
b. Update the balance of customer as they get interest for the amount on quarterly basis.
c. Display the details of customers are ranked as 'TOP 5' based on their balance.
d. Remove the details of the customer who has zero balance.
e. Display the count of customer in each location.
f. Display all the customers who belong to specific location and also with balance greater than 1000, but less than 1 lakhs.
g. Display all the customer details in descending order based on their balance
h. Update the phone number and email of specific customer.

3. Create an AWS instance and deply the customer details in cloud.