Practical 2:

Aim: Classification using SVM

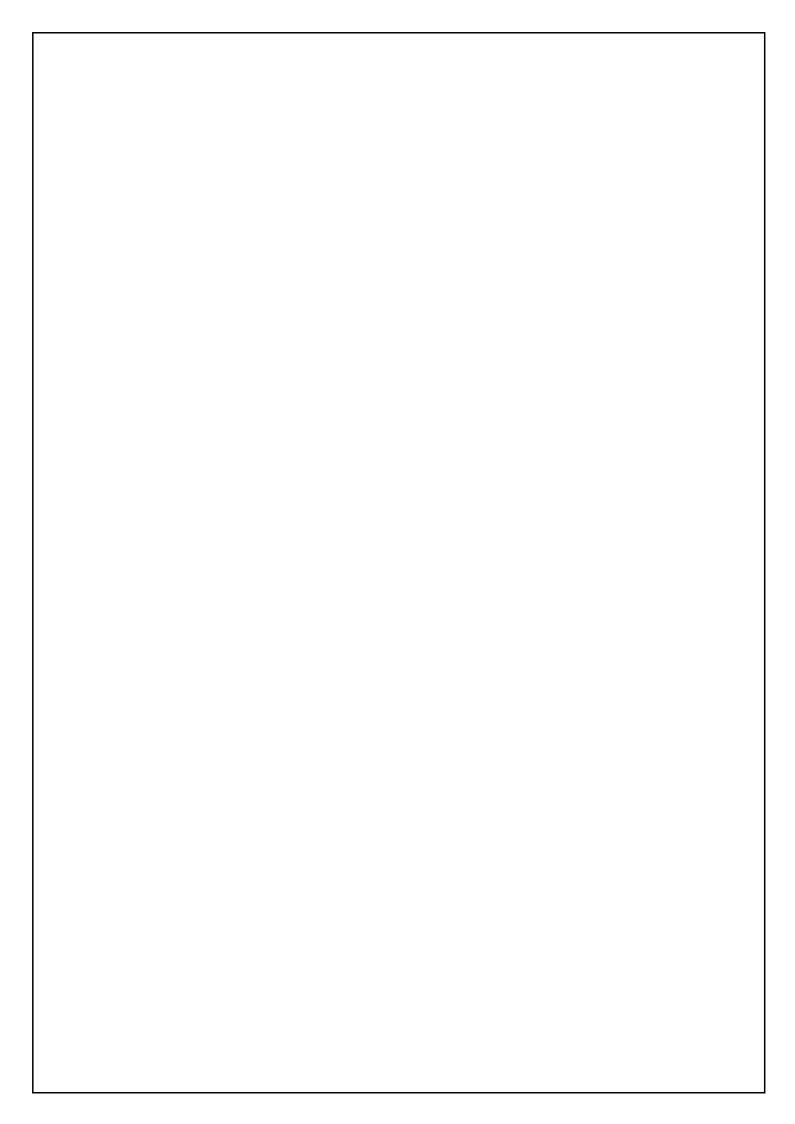
Requirement:

R tool

```
Code:
getwd()
read.csv()
ds=read.csv("E:/Rajdeep/bigdata pract/dataset/social.csv",TRUE,",")
ds
ds=ds[3:5]
ds
install("catools")
library(caTools)
set.seed(123)
split=sample.split(ds$Purchased, SplitRatio=0.75)
training_set=(subset(ds, split == TRUE))
test_set =(subset(ds, split == FALSE))
ds
test_set[-3]=scale(test_set[-3])
training_set[-3]=scale(training_set[-3])
test_set[-3]
training_set[-3]
install.packages('e1071')
library('e1071')
classifier=svm(formula=Purchased ~ ., data= training_set , type='C-classification',kernal='linear')
classifier
y_pred=predict(classifier, newdata=test_set[-3])
y_pred
cm=table(test_set[, 3],y_pred)
cm
```

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- - X
R Console
> y_pred=predict(classifier, newdata=test_set[-3])
> y_pred
          9 12 18 19 20 22 29 32 34 35 38 45 46 48 52 66 69
       5
          0 0 1 1 1 1 0 1 0 0 0 0 0 0 0
 0 0
      0
                                                             0
 74 75 82 84 85 86 87 89 103 104 107 108 109 117 124 126 127 131 134 139
                      0 0 1 0
       0
          0
             0
                1
                   0
                                   0
                                      0 0 0 0
                                                   0 0 0
148 154 156 159 162 163 170 175 176 193 199 200 208 213 224 226 228 229 230 234
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 1 0 0 1
236 237 239 241 255 264 265 266 273 274 281 286 292 299 302 305 307 310 316 324
 1 0 1 1 1 0 1 1 1 1 1 1 1 0 1 0 1 0 0
326 332 339 341 343 347 353 363 364 367 368 369 372 373 380 383 389 392 395
 0 1 0 1 0
                1 1 0
                         0
                             1 1
Levels: 0 1
> cm=table(test_set[, 3],y_pred)
Error in table(test_set[, 3], y_pred) :
 all arguments must have the same length
function (x)
2.54 * x
```

Output:



Practical 8:			
Apriori algorithm			
Aim: Perform Apriori alg	orithm using Grocerie	s dataset from the	R arules packag