

Q3

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University : Stevens Institute of Technology

Project : Final Exam

Purpose : CS513A KDD - Final Exam Question 3

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```
## Removing the existing environment variables
rm(list=ls())

## Uploading given data in .csv file and choosing columns
filename <- file.choose()
data <- read.csv(filename)
data <- na.omit(data)

data <- data[2:4]

set.seed(123)

?kmeans()
```

```
## starting httpd help server ... done
```

```
## Creating Clusters
kmeans_1 <- kmeans(data,centers = 2)

##(a) Cluster contents
kmeans_1$cluster
```

```
## 1 2 3 4 5 6 7
## 1 2 2 2 1 2 1
```

```
table(kmeans_1$cluster)
```

```
##
## 1 2
## 3 4
```

```
##(b) cluster centers
kmeans_1$centers
```

```
##          X          Y          Z
## 1 1.333333 1.333333 1.333333
## 2 4.250000 3.500000 4.250000
```

```
plot(kmeans_1$centers)
```

