# Name: Mark Lopes

# Roll No: 9913

# Branch: Computer A

## Exp 7: k means clustering

# K MEANS (without using inbuilt Python Functions)

A screenshot of a computer

Description automatically generated

Output:

A graph with blue dots

Description automatically generated

A black rectangle with white text

Description automatically generated

Output:

A screenshot of a computer program

Description automatically generated

A black background with white text

Description automatically generated

Output:  
A graph with blue dots and red stars

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a video game

Description automatically generated

Output:

A screen shot of a graph

Description automatically generated

# K- mediods (without using inbuilt Python Functions)

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

A black screen with white text

Description automatically generated

Output:  
A graph with colored dots

Description automatically generated

# KMEANS (using InBuilt Functions)

A screenshot of a video game

Description automatically generated

Output:  
A graph with a line

Description automatically generated

A screenshot of a computer

Description automatically generated

A screen shot of a computer code

Description automatically generated

Output:  
A graph of different sizes and colors

Description automatically generated with medium confidence

# KMEDIOS (using InBuilt Functions)

A screen shot of a computer

Description automatically generated

Output:  
A screenshot of a graph

Description automatically generated

# k means (Hierarchial -Agglomerative Simple ,Complete ,Average Linkage)

A screen shot of a computer program

Description automatically generated

Output:  
A white background with black lines

Description automatically generated

A screen shot of a computer program

Description automatically generated

Output:  
A graph with many dots

Description automatically generated with medium confidence