## **HOMEWORK 3**

**NAME: RUCHIN PATEL** 

118.2824135,34.0184498</coordinates></Point>

USC ID: 9520665364

# 1.) KML FILE COMBINED(Placemarks, Convex Hull and 3-nearest neighbours)

```
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dot.png</href></lcon></lconStyle>
</Style>
<Placemark><name>HOME</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
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</Placemark>
<Placemark><name>Expo/Vermont</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2913573,34.0184626</coordinates></Point>
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<Placemark><name>Jefferson/Verm</name>
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118.2913771,34.0253697</coordinates></Point>
</Placemark>
<Placemark><name>Jefferson/Fig</name>
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<Placemark><name>Fig/Expo</name>
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```

```
</Placemark>
<Placemark><name>Doheny Library</name>
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                    -118.2913573,34.0184626.
                    -118.2995270,34.0224853.
                    -118.2913771,34.0253697.
                    -118.2802878,34.0218704.
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```

```
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-118.2995270,34.0224853.
-118.2995270,34.0224853.
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</coordinates>
</LineString>

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</Placemark>
</Document></kml>
```

# 2.) SELFIE PICS OF POINT LOCATIONS

### 1.) HOME:



## 2.) EXPO/VERMONT:



3.) JEFFERSON/VERMONT:



4.) JEFFERSON/FIG:



5.) FIG/EXPO:



# 6.) DOHENY LIBRARY:



7.) VKC TOWER:



8.) USC BOOKSTORE:



9.) SCHOOL OF ARCHITECTURE:



#### 10.) SGM 123:



# 3.) QUERIES AS TEXT FILE(With output from GCP)

```
1.) CONVEX HULL QUERY(Hard coded points)
      Query:
SELECT ST_AsText(
                ST_ConvexHull(
                              ST_GeomFromText('MULTIPOINT(
                                                         -118.2995270 34.0224853,
                                                         -118.2913573 34.0184626,
                                                         -118.2913771 34.0253697,
                                                         -118.2802878 34.0218704,
                                                         -118.2824135 34.0184498,
                                                         -118.2835145 34.0203222,
                                                         -118.2840972 34.0211979,
                                                         -118.2864314 34.0208825,
                                                         -118.2878275 34.0191034
                                                             )'
                );
```

• Output:

```
postgres> SELECT ST_ASText(
postgres() ST_ConvexHull(
postgres() ST_GeomFromText('MULTIPOINT()
postgres'> -118.2995270 34.0224853,
postgres'> -118.2913573 34.0184626,
postgres'> -118.2913573 34.0253697,
postgres'> -118.2802878 34.0218704,
postgres'> -118.2824135 34.018498,
postgres'> -118.2824135 34.02222,
postgres'> -118.2840972 34.0211979,
postgres'> -118.2840972 34.0211979,
postgres'> -118.2840972 34.0211979,
postgres'> -118.2840972 34.0218704
postgres'> -118.2864314 34.0208825,
postgres'> -118.2878275 34.0191034
postgres(> )
postgres(>
```

#### 2.) 3-NEAREST NEIGHBORS QUERY(With Table generation code)

• TABLE GENERATION query:

CREATE TABLE USC LOC(

```
name VARCHAR(20) UNIQUE,
location POINT
);

INSERT INTO USC_LOC VALUES ('HOME',POINT(-118.2995270,34.0224853));
INSERT INTO USC_LOC VALUES ('EXPO/VERMONT',POINT(-
118.2913573,34.0184626));
INSERT INTO USC_LOC VALUES ('Jefferson/Verm',POINT(-118.2913771,34.0253697));
INSERT INTO USC_LOC VALUES ('Jefferson/Fig',POINT(-118.2802878,34.0218704));
INSERT INTO USC_LOC VALUES ('Fig/Expo',POINT(-118.2824135,34.0184498));
INSERT INTO USC_LOC VALUES ('Doheny Library',POINT(-118.2835145,34.0203222));
INSERT INTO USC_LOC VALUES ('VKC Tower',POINT(-118.2840972,34.0211979));
INSERT INTO USC_LOC VALUES ('USC Book Store',POINT(-118.2864314,34.0208825));
INSERT INTO USC_LOC VALUES ('School of Arch',POINT(-118.2878275,34.0191034));
```

#### 3-nearest neighbors query:

```
SELECT *
FROM USC_LOC
WHERE name != 'HOME'
ORDER BY USC_LOC.location <-> POINT(-118.299527,34.0224853)
LIMIT 3;
```

Outputs(Table Creation and 3-nearest neighbours)

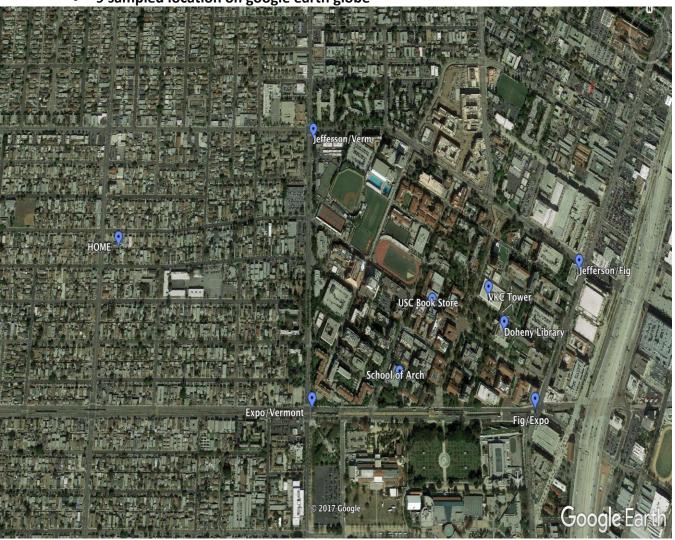
#### **TABLE CREATION:**

#### 3-nearest neighbours:

......

# 4.) SCREEN GRABS (Points, convex Hull and 3-N neighbors)

9 sampled location on google earth globe



• convex hull of the 9 sampled location:



• 3-nearest neighbors inside the convex hull from center as Home

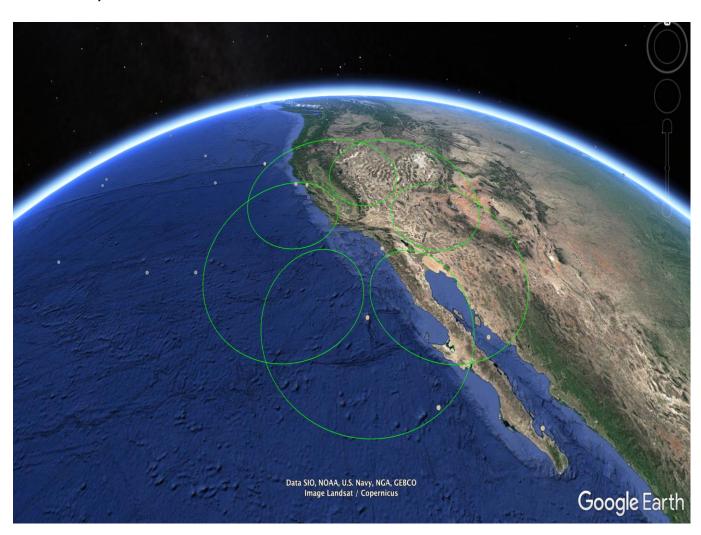


5.) BONUS QUESTION (Point generation code, Screen shot of spiro curve and a BIG Kml file at the end)

#### 1.) POINT GENERATION CODE(Matlab):

```
 \begin{array}{l} R=5 \\ r=1 \\ a=4 \\ x0=R+r-a \\ y0=0 \\ nRev=10 \\ t=0.0:0.01:(pi*nRev); \\ x=34.0211579+((R+r)*cos((r/R)*t)-a*cos((1+(r/R))*t)); \\ y=-118.2892152+((R+r)*sin((r/R)*t)-a*sin((1+(r/R))*t)); \\ figure \\ plot(x,y) \\ filename='spiro.kml'; \\ kmlwritepolygon(filename,x,y,alt,'EdgeColor','g','FaceColor','c','FaceAlpha',0) \\ \end{array}
```

### 2.) SCREEN GRAB OF SPIRO CURVE ON GOOGLE EARTH GLOBE:



#### 3.) KML FILE THAT GENERATED THE SPIRO CURVE:

```
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<kml xmlns="http://www.opengis.net/kml/2.2">
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   <name>spiro</name>
   <Placemark>
    <Snippet maxLines="0"> </Snippet>
    <description> </description>
    <name>Polygon 1</name>
    <Style>
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       <color>ff00ff00</color>
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       <LinearRing>
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