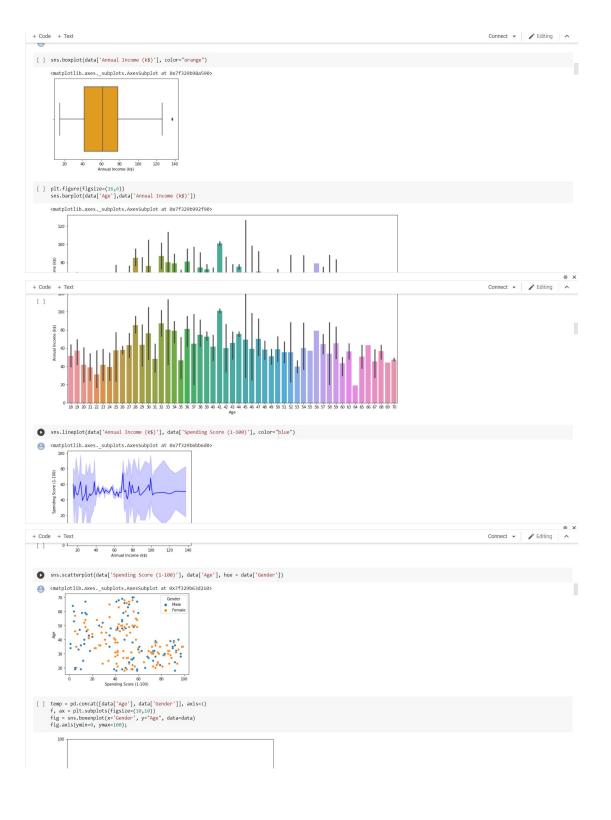
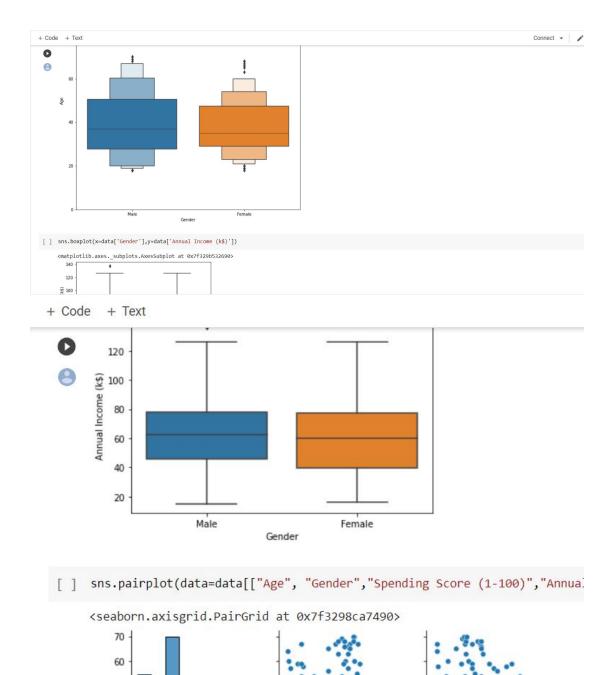
## Assignment-4 Statistical Machine Learning Approaches To Liver Disease Prediction

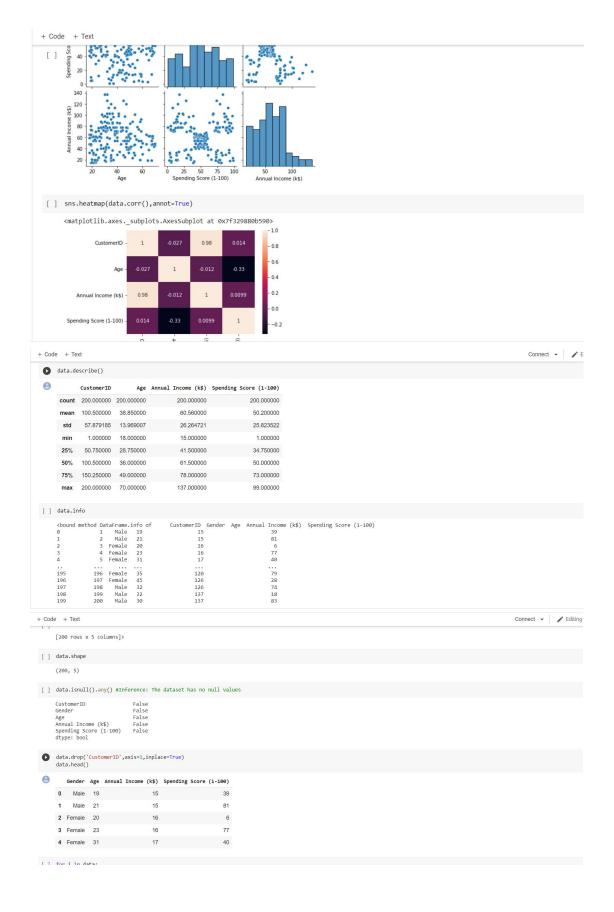
| Student Name    | Kamali R     |
|-----------------|--------------|
|                 |              |
| Student Roll no | 621319104019 |
|                 |              |
| Maximum Marks   | 2 Marks      |
|                 |              |

## **Customer Segmentation Analysis:**









+ Code + Text Connect ▼ for i in data:

if data[i].dtype="int64':

q1-data[i].quantile(0.25)
q3-data[i].quantile(0.75)
iqr=q3-q1
upper-q3+1.5\*iqr
lower=q1-1.5\*iqr
data[i]=np.where(data[i] >upper, upper, data[i])
data[i]=np.where(data[i] <lower, lower, data[i]) [ ] plt.boxplot(data['Age']) + Code + Text Conne plt.boxplot(data['Annual Income (k\$)']) {'whiskers': [<matplotlib.lines.Line2D at @x/f3296e94b50>, <matplotlib.lines.Line2D at @x/f3296e990d0>], 'caps': [<matplotlib.lines.Line2D at @x/f3296e99610>, <matplotlib.lines.Line2D at @x/f3296e99610>, <matplotlib.lines.Line2D at @x/f3296e9950>], 'boxes': [<matplotlib.lines.Line2D at @x/f3296e945d0>], 'medians': [<matplotlib.lines.Line2D at @x/f3296e41110>], 'fliers': [<matplotlib.lines.Line2D at @x/f3296e4110>], 'means': []} 100 [ ] plt.boxplot(data['Spending Score (1-100)']) + Code C Doxes: [{matplotlib.lines.Line2D at 0x/f3296e/ee99}], medians': [{matplotlib.lines.Line2D at 0x/f3296e0da10}], 'fliers': [{matplotlib.lines.Line2D at 0x/f3296e0df50}], 'means': []} 100 20 data['Gender'] = 1\_en.fit\_transform(data['Gender'])
data.head() 0 Gender Age Annual Income (k\$) Spending Score (1-100) **0** 1 19.0 15.0 39.0 1 1 21.0 15.0 81.0 2 0 20.0 16.0 6.0 0 23.0 16.0 77.0

