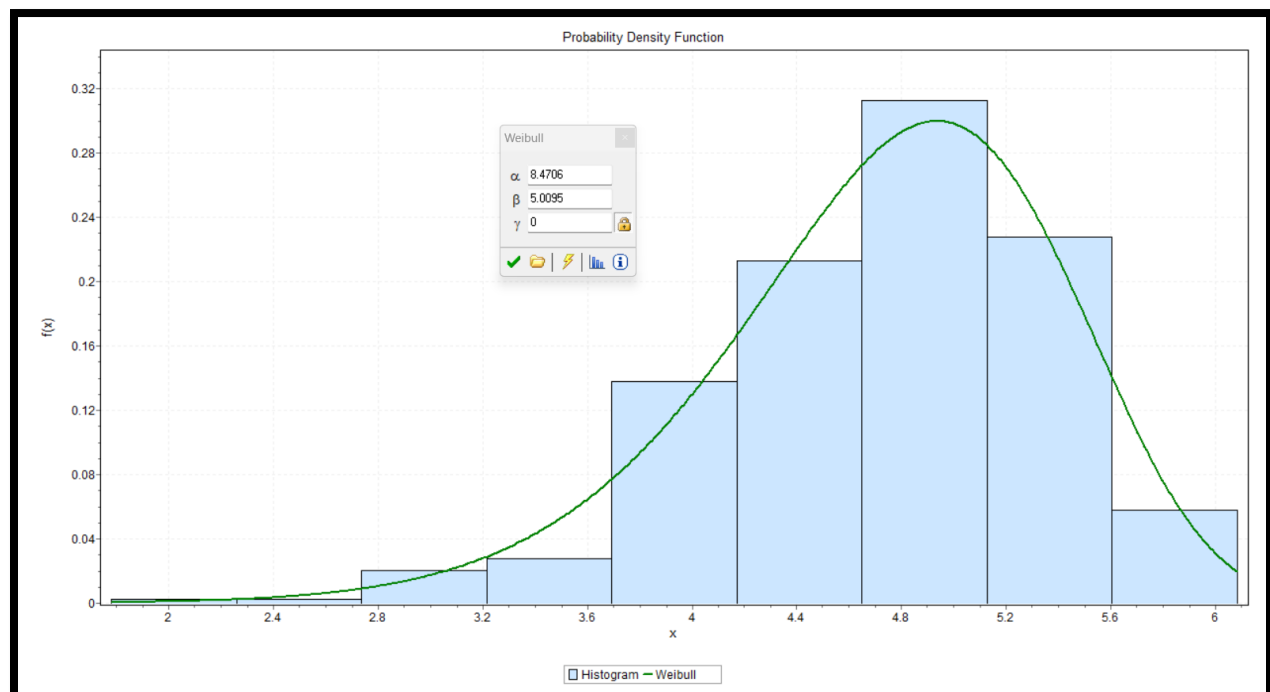


Homework 9

Code:

```
1 # HW 9 Parameter Estimation
2 # Inthat Sappipat 65011304
3
4 wb <- rweibull(n = 400, shape = 9, scale = 5) # create a variable named wb to generate the
5 # weibull sample data with 400 data points
6 # shape 9 and scale 5
7
8 df <- data.frame(wb) # create a variable named df to create a data drame
9
10 path <- "C:\\Users\\sho\\OneDrive\\Achive of Shogun\\Software Engineer KMITL\\Year 2
11         \\Semester 1\\Probability and statistics\\Homework\\CSV\\wdata.csv"
12 # create a variable name path to store a location of a path that will use to store
13 # the csv file
14
15 write.csv(df, file = path, row.names = FALSE) # create a csv file and store in a defined path
```

Result:



Conclusion:

From the experiment, I have created a histogram of sample data by using RStudio and Easyfit. First, I created a code to generate a sample Weibull data with 400 data points, a shape parameter of 9, and a scale parameter of 5. Next, I make a file path to save a CSV file when running a R code, it will save to the location that I defined. Then, I opened the Easyfit application and opened the saved file from the defined location. Finally, I used the analyze tool to show the bar graph and show the scale and shape. In my opinion, the parameter from the experiment is quite close to the real parameter, on the other hand, the real parameter of shape is 9 and the scale is 5, and the experiment parameter of shape is 8.4706 and the scale is 5.0095. Therefore, it has a high accuracy.