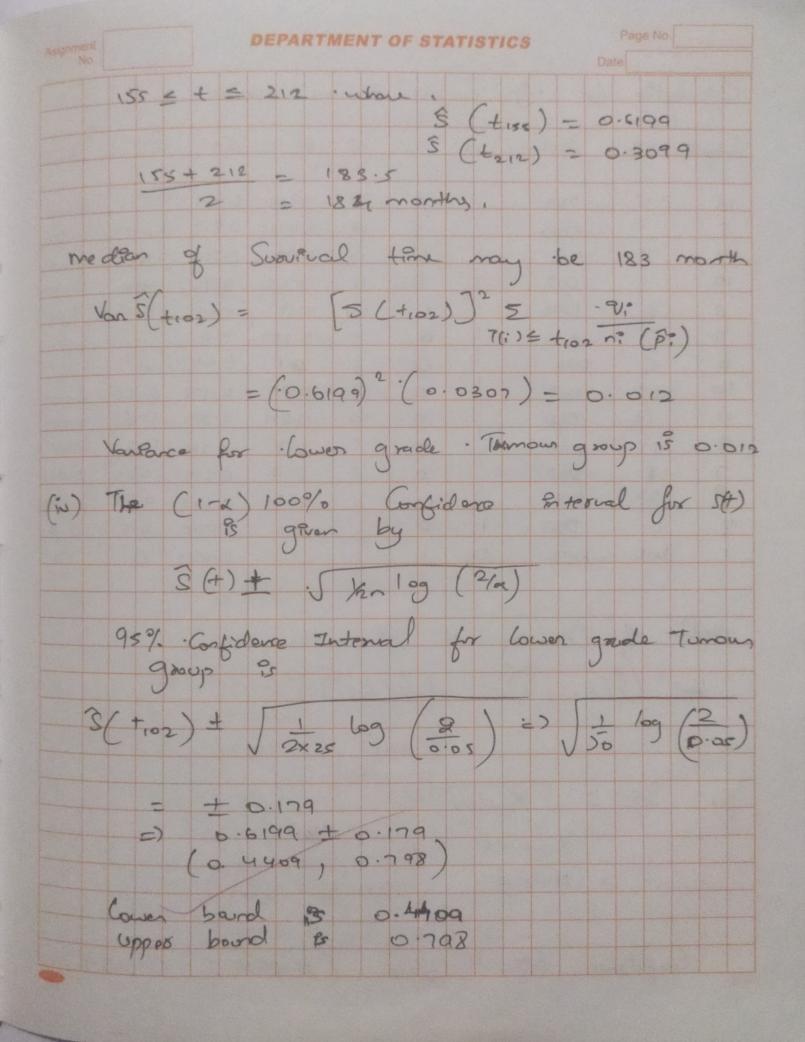


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```
a lover Grade Tumour Group
    data lower = {
               "Subject": [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 9, 10, 11, 12,
                                             13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25],
              "Time": [29, 129, 79, 138, 21, 95, 137, 6, 212, 11, 212, 11, 15, 337,
             82, 33, 75, 109, 26, 117, 8, 127, 155, 102, 34, 109, 15],
"Status": ["dod", "ned", "dod", "ned", "ned", "ned", "dod", "dod", "ned", "ned", "dod", "ned", "ne
                                                                                                                                                                                                       "ned",
  of lower = pd.DataFrame(data_lower)
  df_lower['Event'] = df_lower['Status'].apply(lambda x: 1 if x == 'dod' else 8)
   # High Grade Tumour Group
   data high = {
              "Subject": [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14],
            "Time": [102, 27, 6, 7, 2, 9, 17, 16, 23, 9, 12, 4, 0, 3],
"Status": ["ned", "dod", "dod"]
  df high = pd.DataFrame(data_high)
  df high['Event'] = df_high['Status'].apply(lambda x: 1 if x == 'dod' else 0-)
  # Kaplan-Meier Estimator
  kmf lower = KaplanMeierFitter()
  kmf high = KaplanMeierFitter()
 plt.figure(figsize=(10, 6))
 # Fit for Lower Grade Tumour Group
 kmf lower.fit(durations=df_lower['Time'], event_observed=df_lower['Event'], label='Lower Grade Tumour')
 kmf_lower.plot_survival_function()
 # Fit for High Grade Tumour Group
 kmf_high.fit(durations=df_high['Time'], event_observed=df_high['Event'], label='High Grade Tumour')
kmf_high.plot_survival_function()
 # Plot Formatting
plt.title('Kaplan-Meier Survival Curves for Tumour Groups')
plt.xlabel('Time (Days)')
plt.ylabel('Survival Probability')
plt.legend()
plt.grid()
plt.show()
```

## Output:

