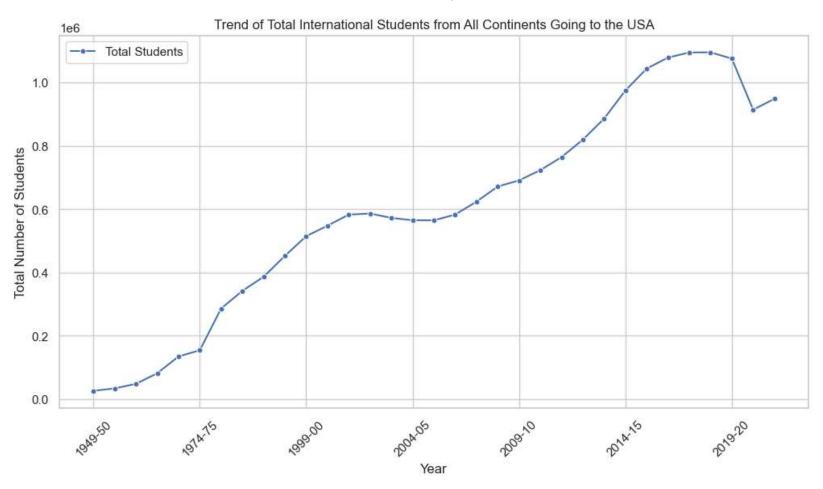
Out[51]:

:	Year	African_Sub_Saharan	East_Africa	Central_Africa	Southern_Africa	West_Africa	Asia	East_Asia	South_and_Central
0	1949/50	537	37	0	0	361	6806	4160	
1	1954/55	862	99	9	9	568	10175	5423	
2	1959/60	1346	457	11	11	639	17808	9268	
3	1964/65	5259	1860	209	209	2318	30640	16222	
4	1969/70	6064	1731	264	264	3133	51033	27589	
5	1974/75	16040	3949	400	400	10600	58460	30720	
6	1979/80	29600	5093	1060	1060	20760	81730	45710	
7	1984/85	33720	6548	1335	1335	22440	143680	72630	:
8	1989/90	20370	6446	1766	1766	7950	208110	127320	;
9	1994/95	17642	5915	1294	1294	5943	261789	168190	4
10	1999/00	26124	9497	1579	1579	9177	280149	180147	ţ
11	2000/01	29399	10651	1511	1511	10346	302058	189371	-
12	2001/02	32509	11841	1612	1612	11385	324812	196813	{
13	2002/03	35406	12478	1939	1939	13590	332298	199666	•
14	2003/04	33942	11418	1889	1889	13821	324006	189874	•
15	2004/05	32492	10649	2074	2074	13782	325112	192561	•
16	2005/06	32847	10617	2410	2410	13846	327785	197576	•
17	2006/07	32423	10514	2815	2815	13344	344495	204023	10
18	2007/08	32020	9909	2902	2902	13632	380465	223306	1.
19	2008/09	32708	10411	2819	2819	13837	415000	240952	1:
20	2009/10	32121	9872	2872	2872	14064	435667	261125	1:
21	2010/11	31470	8863	2831	2831	14446	461818	286925	1:
22	2011/12	30046	7827	2778	2778	14245	489970	319515	1:
23	2012/13	30585	7761	2861	2861	14452	525849	357596	1:
24	2013/14	31113	7549	2883	2883	14998	568510	393205	1:
25	2014/15	33593	7560	3032	3032	16958	627306	417881	1!
26	2015/16	35364	7690	3311	3311	18100	689525	439702	19

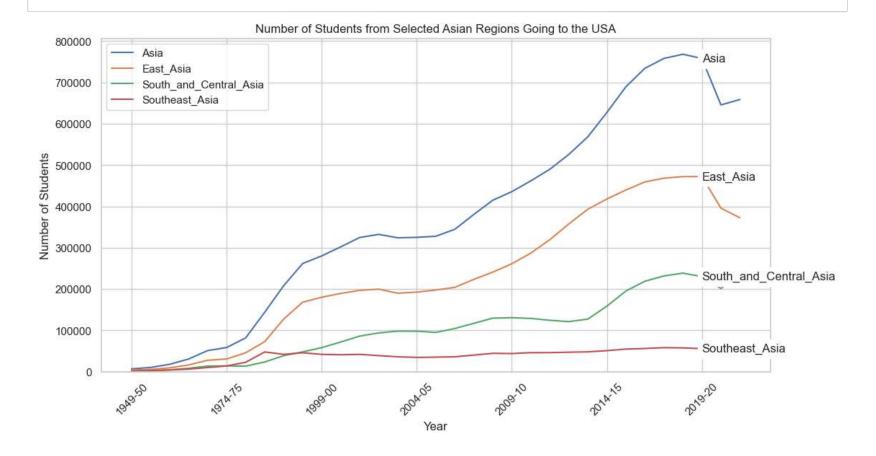
	Year	African_Sub_Saharan	East_Africa	Central_Africa	Southern_Africa	West_Africa	Asia	East_Asia	South_and_Central
27	2016/17	37735	8480	3545	3545	19237	734309	459284	2.
28	2017/18	39479	9093	3562	3562	20395	758076	468304	23
29	2018/19	40290	9227	3325	3325	21423	768260	472085	23
30	2019/20	41697	9989	3071	3071	22151	758014	472339	2:
31	2020/21	39061	9319	2899	2899	20808	645622	395808	20
32	2021/22	42518	10157	2871	2871	22974	658669	372378	2:

 import pandas as pd In [82]: import seaborn as sns import matplotlib.pyplot as plt # Creating a line plot to show the trend over the years. plt.figure(figsize=(12, 6)) ax = sns.lineplot(data=record, x='Year', y='Total', marker='o', markersize=5, color='b', label='Total Stud plt.title('Trend of Total International Students from All Continents Going to the USA') plt.xlabel('Year') plt.ylabel('Total Number of Students') # Setting x-axis ticks at 5-year intervals xticks = range(0, len(record['Year']), 5) xlabels = record['Year'].iloc[xticks].apply(lambda x: x.replace('/', '-')) ax.set xticks(xticks) ax.set xticklabels(xlabels, rotation=45) plt.legend(loc='upper left') plt.grid(True) plt.show()



```
In [93]:  import pandas as pd
             import seaborn as sns
             import matplotlib.pyplot as plt
             # Creating a line plot for the selected continents.
             selected continents = [
                 'Asia', 'East Asia', 'South and Central Asia', 'Southeast Asia'
             # Defining the years for custom x-axis labels.
             custom years = ['1949-50', '1974-75', '1999-00', '2004-05', '2009-10', '2014-15', '2019-20']
             # Creating a mapping from custom years to the closest available data points.
             custom years to data index = {
                 '1949-50': 0,
                 '1974-75': 5,
                 '1999-00': 10,
                 '2004-05': 15,
                 '2009-10': 20,
                 '2014-15': 25,
                 '2019-20': 30
             }
             plt.figure(figsize=(12, 6))
             for column in selected continents:
                 sns.lineplot(data=record, x='Year', y=column, label=column)
             plt.title('Number of Students from Selected Asian Regions Going to the USA')
             plt.xlabel('Year')
             plt.ylabel('Number of Students')
             plt.legend(loc='upper left')
             plt.grid(True)
             # Expanding the vertical axis.
             plt.ylim(bottom=0)
             # Setting custom x-axis ticks and add labels at the end of each line.
             plt.xticks([custom years to data index[year] for year in custom years], custom years, rotation=45)
             for column in selected continents:
                 x_pos = custom_years_to_data_index['2019-20']
                 y_pos = record[column].iloc[x_pos]
                 plt.text(x_pos, y_pos, column, va='center', ha='left', backgroundcolor='w')
```

plt.show()



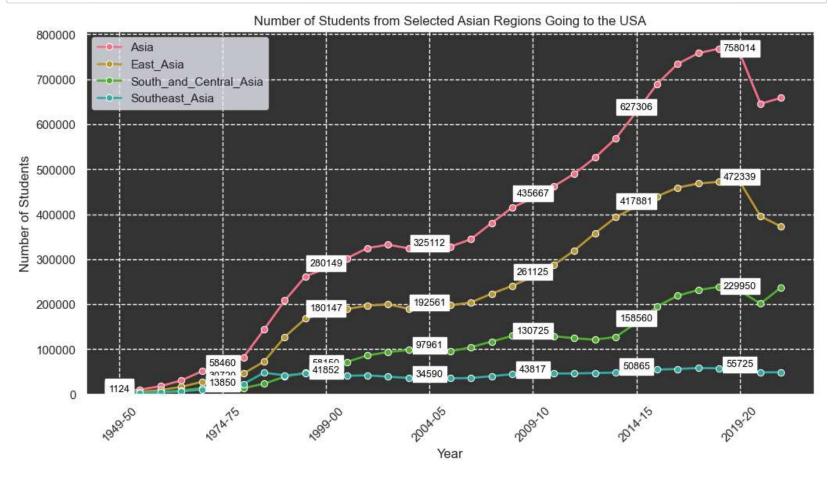
```
In [102]: | import pandas as pd
              import seaborn as sns
              import matplotlib.pyplot as plt
              # Setting a Seaborn style with a dark grey background
              sns.set(style="darkgrid")
              # Creating a color palette
              colors = sns.color palette("husl")
              # Creating a line plot for the selected continents.
              selected continents = [
                  'Asia', 'East Asia', 'South and Central Asia', 'Southeast Asia'
              # Defining the years for custom x-axis labels.
              custom years = ['1949-50', '1974-75', '1999-00', '2004-05', '2009-10', '2014-15', '2019-20']
              # Creating a mapping from custom years to the closest available data points.
              custom years to data index = {
                  '1949-50': 0,
                  '1974-75': 5,
                  '1999-00': 10,
                  '2004-05': 15,
                  '2009-10': 20,
                  '2014-15': 25,
                  '2019-20': 30
              # Creating a dark grey background
              plt.figure(figsize=(12, 6))
              ax = plt.gca()
              ax.set facecolor('#333333') # Dark grey background
              for i, column in enumerate(selected continents):
                  sns.lineplot(data=record, x='Year', y=column, label=column, color=colors[i], linestyle='-', linewidth=
              plt.title('Number of Students from Selected Asian Regions Going to the USA')
              plt.xlabel('Year')
              plt.ylabel('Number of Students')
              plt.legend(loc='upper left')
              plt.grid(True, color='white', linestyle='--')
```

```
# Expanding the vertical axis.
plt.ylim(bottom=0)

# Setting custom x-axis ticks and add labels at the end of each line.
plt.xticks([custom_years_to_data_index[year] for year in custom_years], custom_years, rotation=45)

# Adding values to the x-axis labels
for year in custom_years:
    x_pos = custom_years_to_data_index[year]
    for column in selected_continents:
        y_pos = record[column].iloc[x_pos]
        plt.text(x_pos, y_pos, f'{y_pos}', va='bottom', ha='center', backgroundcolor='w', color='black', f

plt.show()
```



In []: ▶