

Assignment no 1

Name: Pratik Bangar,

Roll NO:408[D1]

PRN:202201070038

```
import pandas as pd

# Load the CSV file into a dataframe df =
pd.read_csv('/content/dataset1.csv')
```

1. Find the country who has won the most Asia Cup.

```
most_wins = df['Winner'].value_counts().idxmax() print("Country
with the most Asia Cup wins:", most_wins)
```

Output:

```
Country with the most Asia Cup wins: India
```

2. Find the country who Host most Asia Cup tournaments.

```
most_hosts = df['Host'].value_counts().idxmax() print("Country
that has hosted the most Asia Cup tournaments:", most_hosts)
```

Output:

```
Country that has hosted the most Asia Cup tournaments: Bangladesh
```

3. Find the country who has the runner up in 1988, 2004 and 2016.

```
runner_up_88 = df.loc[df['Year'] == 1988, 'Runner up'].values[0]
runner_up_04 = df.loc[df['Year'] == 2004, 'Runner up'].values[0]
runner_up_16 = df.loc[df['Year'] == 2016, 'Runner up'].values[0]

print("Runner-up in 1988:", runner_up_88) print("Runner-up
in 2004:", runner_up_04) print("Runner-up in 2016:",
runner_up_16)
```

Output:

```
Runner-up in 1988: Sri Lanka
```

```
Runner-up in 2004: India
```

```
runner-up in 2016: Bangladesh 4. Find
```

the different formats of Asia Cup.

```
formats = df['Format'].unique()
print("Different formats of Asia Cup:", formats)
```

Output:

```
Different formats of Asia Cup: ['ODI' 'T20I']
```

5. Clean the dataset if record is empty with 0 values or delete incomplete data row.

```
df.fillna(0, inplace=True) df.dropna(inplace=True)
print("Number of rows after cleaning:", len(df))
```

Output:

```
Number of rows after cleaning: 13
```

6. Find the All Year of Asia cup won by India.

```
india_wins = df[df['Winner'] == 'India']['Year'].values
print("Years in which India won the Asia Cup:", india_wins)
```

Output:

```
Years in which India won the Asia Cup: [1984 1988 1991 1995 2010 2016]
```

7. Find the final match hosted by 'Bangladesh'.

```
final_match_bangladesh = df[df['Host'] == 'Bangladesh'].tail(1)
print("Final match hosted by Bangladesh:\n", final_match_bangladesh)
```

Output:

```
Final match hosted by Bangladesh:
   Year Format      Host Final Venue Winner      Margin  Runner up
12  2016   T20I  Bangladesh      Mirpur  India  8 wickets  Bangladesh
```