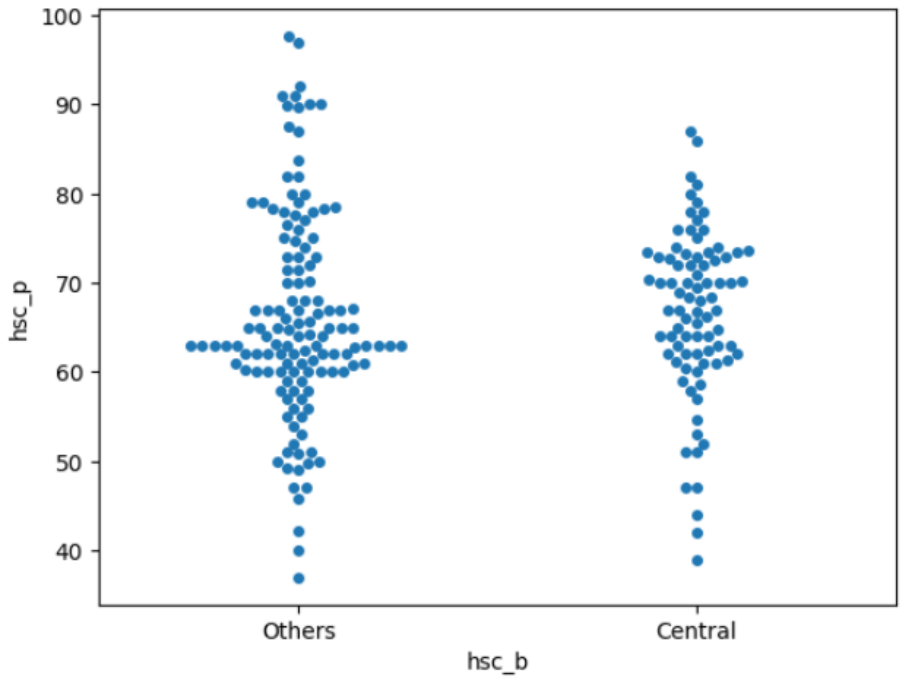
Swarm Plot

```
sb.swarmplot(x='hsc_b', y = 'hsc_p', data=df)
```

```
<Axes: xlabel='hsc_b', ylabel='hsc_p'>
```



Swarm Plot

- Swarm plot is used to show the relation between numerical and categorical variables.
- It explains the distribution of data points based on each category.
- Main feature - Data points doesn't overlap each other's which provides a good understanding of the spread of data.
- There is a horizontal jitter to ensure the clarity of the data points.

Relationship:

- Relation between 12th percentage and the school board type (Central & Others).
- This helps to compare how the performance of 12th std students differs based on school boards.

Difference:

- Performance of the 12th students in other boards is comparatively higher than the Central board students.
- Maximum number of students scored between 58 – 68 in other boards.

- Highest score
  → Other board - 98
  → Central board – 85

Comparison of Trends

- There is a **Slight trend** between the two school boards, may be due to, the other school boards provide better opportunities, resources, practices, and support for the students better than Central board students.