```
data = pd.read csv("/content/pokemon.csv")
data.info()
data['type1'].unique()
markers='o', diag kind='kde')
plt.suptitle("Pair Plot")
plt.xlabel('Attributes (Attack, Defense, Speed)')
plt.show()
highest base = data[data["base total"] == data["base total"].max()]
pokemon = highest base[["name" , "base_total"]]
print(pokemon)
generation = data.groupby("generation").agg({"height m" : "mean" ,
"weight_kg" : "mean"})
generation.reset index(inplace=True)
```

```
plt.figure(figsize=(10, 6))
plt.plot(generation['generation'], generation['height m'], label='Average
Height (m)')
Weight (kg)')
plt.xlabel('generation')
plt.ylabel('Average Height and Weight')
plt.legend()
plt.xticks(generation['generation'])
plt.grid(True)
plt.show()
pokemon data = data[['height m', 'weight kg', 'base total']]
correlation matrix = pokemon data.corr()
plt.xticks(range(len(correlation matrix.columns)),
correlation matrix.columns, rotation=45)
plt.yticks(range(len(correlation matrix.columns)),
correlation matrix.columns)
plt.colorbar()
plt.show()
correlation = data["height m"].corr(data["attack"])
print(correlation)
average_speed_by_generation = data.groupby('generation')['speed'].mean()
```

```
# visualising
plt.figure(figsize=(10, 6))
plt.plot(average_speed_by_generation.index,
average_speed_by_generation.values, marker='o', color='b')
plt.title('Average Base Speed of Pokemon Across Different Generations')
plt.xlabel('Generation')
plt.ylabel('Average Base Speed')
plt.xticks(average_speed_by_generation.index)
plt.grid(True)
plt.tight_layout()
plt.show()
```