

Python Code:

```
from operator import index
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import matplotlib.dates as mdates

# read data
data = pd.read_csv('gantt chart data.csv')

# print data
print(data)

# drawing gantt chart
n = len(data)
plt.figure(num=1, figsize=[10, 5], dpi= 100)
bar_width = 0.9

for i in range(n):
    i_rev = n - i - 1
    # plotting the last task first
    plt.broken_barh([(data["Start"][i_rev], data["Duration"][i_rev])], (i
- bar_width / 2, bar_width), color="c")
    plt.broken_barh([(data["Start"][0], data["PastTime"][i_rev])], (i -
bar_width / 2, bar_width), color="w")

y_pos = np.arange(n)
plt.yticks(y_pos, labels=reversed(data["Activity"]))

# xticks
plt.gca().xaxis.set_major_locator(mdates.DayLocator())

# grid
plt.grid(axis="x", which="major", lw=1)

# finishing touch
plt.xlim(data["Start"][0])
plt.xlabel("\nDays", fontsize = 12, weight = "bold", style = "italic")
plt.ylabel("Activity\n", fontsize = 12, weight = "bold", style = "italic")
plt.title("Gantt Chart\n", fontsize = 16, weight = "bold")
plt.tight_layout(pad=2)

# plot graph
plt.show()
```

Terminal:

The screenshot displays the Visual Studio Code interface with a Python file named `gantt_chart.py` open. The code imports `operator`, `numpy`, `pandas`, `matplotlib.pyplot`, and `matplotlib.dates`. It reads a CSV file named `gantt chart data.csv`, prints the data, and generates a Gantt chart. The terminal window shows the command `python -u "F:\Mine\Codes\New folder\Pagol assignment\gantt_chart.py"` and the output of the script, which is a table with columns: Activity, Start, Duration, PastTime. The output shows five activities with their respective start times, durations, and past times.

```

1 from operator import index
2 import numpy as np
3 import pandas as pd
4 import matplotlib.pyplot as plt
5 import matplotlib.dates as mdates
6
7 # read data
8 data = pd.read_csv('gantt chart data.csv')
9
10 # print data
11 print(data)
12
13 # drawing gantt chart
14 n = len(data)
15 plt.figure(num=1, figsize=[10, 5], dpi=100)
16 bar_width = 0.9
17
18 for i in range(n):
19     # draw bar
20     start = data['Start'][i]
21     end = data['End'][i]
22     plt.bar(start, end - start, width=bar_width, label=data['Activity'][i])
23
24 plt.show()

```

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```

PS F:\Mine\Codes\New folder\Pagol assignment> python -u "F:\Mine\Codes\New folder\Pagol assignment\gantt_chart.py"

```

Activity	Start	Duration	PastTime
0	1-2	0	5
1	1-3	11	8
2	2-3	5	7
3	2-4	5	6
4	3-4	19	4
5	3-5	12	9

```

PS F:\Mine\Codes\New folder\Pagol assignment>

```

Output:

