

```

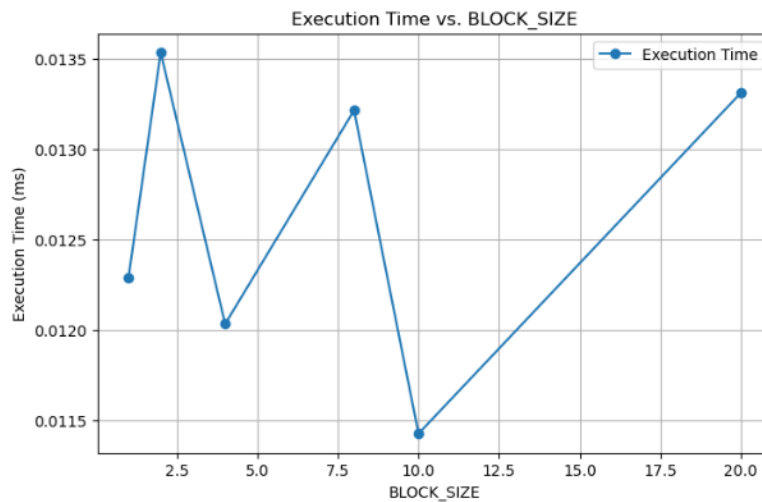
9]: import pandas as pd
import matplotlib.pyplot as plt

data = {
    "BLOCK_SIZE": [1, 2, 4, 8, 10, 20],
    "Execution_Time": [.012288, .013536, .012032, .013216, .011424, .013312]
}

# Convert to DataFrame
df = pd.DataFrame(data)

1]: # Plotting the data
plt.figure(figsize=(8, 5))
plt.plot(df["BLOCK_SIZE"], df["Execution_Time"], marker='o', linestyle='-', label="Execution Time")
plt.title("Execution Time vs. BLOCK_SIZE")
plt.xlabel("BLOCK_SIZE")
plt.ylabel("Execution Time (ms)")
plt.grid()
plt.legend()
plt.show()

```



```

[adgarne@node0498 HW3]$ ./bigdot3
BLOCK_SIZE = 1, Execution Time: 0.012288 ms
Top-left 5x5 submatrix of the result:
40 40 40 40 40
40 40 40 40 40
40 40 40 40 40
40 40 40 40 40
40 40 40 40 40
[adgarne@node0498 HW3]$

```

```
[adgarne@node0498 HW3]$ ./bigdot3  
BLOCK_SIZE = 2, Execution Time: 0.013536 ms  
Top-left 5x5 submatrix of the result:  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
[adgarne@node0498 HW3]$ █
```

```
[adgarne@node0498 HW3]$ ./bigdot3  
BLOCK_SIZE = 4, Execution Time: 0.012032 ms  
Top-left 5x5 submatrix of the result:  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
[adgarne@node0498 HW3]$ █
```

```
[adgarne@node0498 HW3]$ ./bigdot3  
BLOCK_SIZE = 8, Execution Time: 0.013216 ms  
Top-left 5x5 submatrix of the result:  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
40 40 40 40 40  
[adgarne@node0498 HW3]$ █
```

