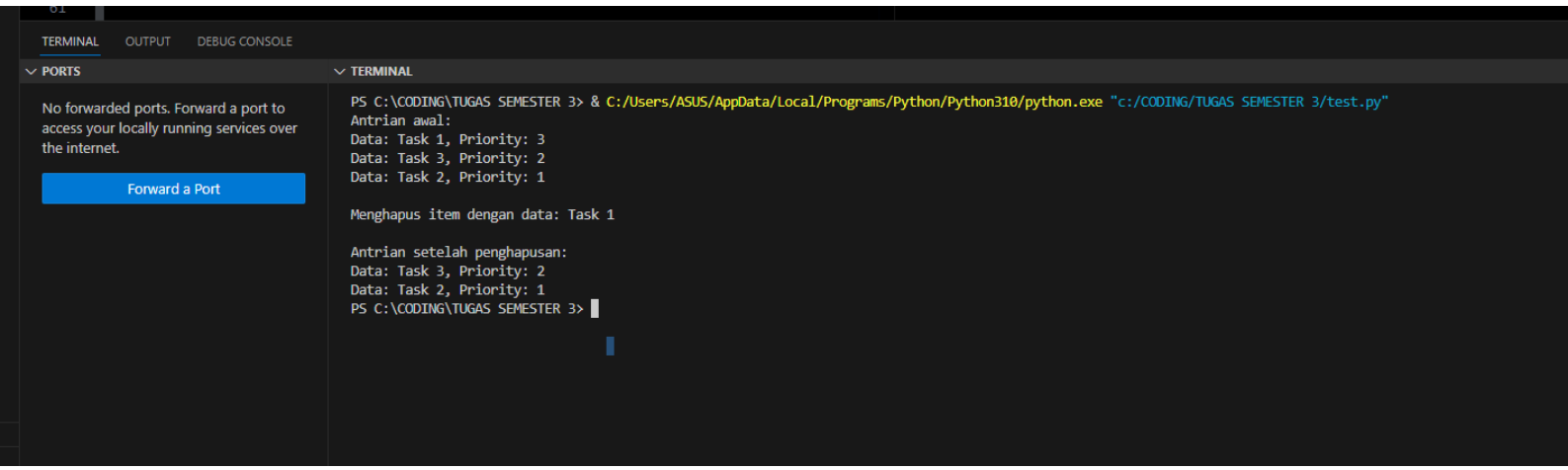
```python
class PriorityQueueNode:
    def __init__(self, data, priority):
        self.data = data
        self.priority = priority
        self.next = None


class PriorityQueue:
    def __init__(self):
        self.head = None

    def is_empty(self):
        return self.head is None

    def insert(self, data, priority):
        new_node = PriorityQueueNode(data, priority)

        if self.is_empty() or priority > self.head.priority:
            new_node.next = self.head
            self.head = new_node
        else:
            current = self.head
            while current.next is not None and current.next
.priority > priority:
                current = current.next
            new_node.next = current.next
            current.next = new_node

    def remove(self):
        if self.is_empty():
            print("Antrian kosong")
            return None
        else:
            removed_data = self.head.data
            self.head = self.head.next
            return removed_data

    def display(self):
        current = self.head
        while current:
            print(f"Data: {current.data}, Priority: {current.
priority}")
            current = current.next


def main():
    priority_queue = PriorityQueue()

    # Menambahkan elemen ke dalam priority queue
    priority_queue.insert("Task 1", 3)
    priority_queue.insert("Task 2", 1)
    priority_queue.insert("Task 3", 2)

    print("Antrian awal:")
    priority_queue.display()

    # Menghapus elemen dengan prioritas tertinggi
    removed_item = priority_queue.remove()
    print(f"\nMenghapus item dengan data: {removed_item}\n")

    print("Antrian setelah penghapusan:")
    priority_queue.display()


if __name__ == "__main__":
    main()

```


TERMINAL
OUTPUT
DEBUG CONSOLE
PORTS
No forwarded ports. Forward a port to access your locally running services over the internet.
Forward a Port
TERMINAL
PS C:\CODING\TUGAS SEMESTER 3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/CODING/TUGAS SEMESTER 3/test.py"
Antrian awal:
Data: Task 1, Priority: 3
Data: Task 3, Priority: 2
Data: Task 2, Priority: 1
Menghapus item dengan data: Task 1
Antrian setelah penghapusan:
Data: Task 3, Priority: 2
Data: Task 2, Priority: 1
PS C:\CODING\TUGAS SEMESTER 3>