```python
PASS_MARK = 40
MAX_MARK = 100
MIN_MARK = 0

def get_student_marks():
    """
    Reads marks of N students.
    Ensures marks are integers between 0 and 100.
    Returns a list of valid marks.
    """
    student_marks = []
    num_students = int(input("Enter the number of students: "))
    for i in range(num_students):
        while True:
            try:
                mark = int(input(f"Enter marks for student {i+1} (0-100): "))
                if MIN_MARK <= mark <= MAX_MARK:
                    student_marks.append(mark)
                    break
                else:
                    print(f"Marks should be between {MIN_MARK} and {MAX_MARK}. Try again.")
            except ValueError:
                print("Invalid input. Please enter an integer.")
    return student_marks

def analyze_marks(student_marks):
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Total Marks: 317
Average Marks: 63.40
Passed Students: 4
Failed Students: 1
PS C:\Users\welcome>
```