STUDENTS MARK ANALYSIS

PROGRAM:

```python
# Python Program – Student Marks Analysis


# Input: Read number of students

n = int(input("Enter number of students: "))


total_marks = 0

passed_students = 0

failed_students = 0


# Process marks using loop

for i in range(n):

    mark = int(input(f"Enter mark of student {i+1}: "))


    # Ensure mark is between 0 and 100

    if 0 <= mark <= 100:

        total_marks += mark


        # Classify using if-elif-else

        if mark >= 40:

            passed_students += 1

        else:

            failed_students += 1

    else:

        print("Invalid mark! Please enter between 0 and 100.")

        break
```

```python
# Calculate average
average_marks = total_marks / n


# Output results
print("\n----- Result -----")

print("Total Marks:", total_marks)

print("Average Marks:", average_marks)

print("Passed Students:", passed_students)

print("Failed Students:", failed_students)


# Time Complexity: O(n)

# Space Complexity: O(1)


# Git Commands Used:
```

Git Commands Used:

1.cd Downloads
2.cd githubtask

3.cd Naveen---python---training

4.git add .

5.git commit -m "STUDENTS MARK ANALYSIS"

OUTPUT:

Enter number of students: 3

Enter mark of student 1: 100

Enter mark of student 2: 20

Enter mark of student 3: 50

----- Result -----

Total Marks: 170

Average Marks: 56.666666666666664

Passed Students: 2

Failed Students: 1