Grading System

Scenario:

A school needs an automated grading system. Students receive marks in five subjects, and the system should determine their overall grade based on an average score.

Question:

Write a Python program that:

1. Takes marks for five subjects from the user.
2. Calculates the average percentage.
3. Uses conditional statements (if-elif-else) to determine the grade based on the following criteria:
    - 90 and above: A+
    - 80-89: A
    - 70-79: B
    - 60-69: C
    - Below 60: Fail
4. Displays the grade.

Code:

```
def cal_total(marks,name,n):
  sum=0
  for i in marks:
     sum +=i
  average=avg(sum,n)
  print(f"{name} , Your total is {sum} and average is {average}")
  grade(average)


def avg(sum,n):
  average = sum/n
  return average
def grade(avg):
  if(avg>90):
    print("grade: A+")
```

```
  elif(avg>=80 or avg<=89):
    print("grade: A")
  elif(avg>=70 or avg<=79):
    print("grade: B")
  elif(avg>=60 or avg<=69):
    print("grade: C")
  else:
    print("Fail")
studentName=input("Enter name: ")
n=int(input("No of subject: "))
markList=[]
for i in range(0,n):
  temp=int(input(f"Mark{i+1}: "))
  markList.append(temp)
print(markList)
cal_total(markList,studentName,n)
```

Output:

Enter name: priya

No of subject: 5

Mark1: 90

Mark2: 85

Mark3: 76

Mark4: 73

Mark5: 78

[90, 85, 76, 73, 78]

priya , Your total is 402 and average is 80.4

grade: A