Mark John Paul Pagarigan

Pseudocode

Step 1: Start
Step 2: Print"Enter your name: ",name
Step 3: Print"Enter your grade in Math: ", math_grade
Step 4: Print"Enter your grade in Filipino: ",filipino_grade
Step 5: Print"Enter your grade in English: ",english_grade
Step 6: Print"Enter your grade in Science: ",science_grade
Step 7:Print"Enter your grade in P. E.: ",pe_grade
Step 8: Read: gwa = (math_grade + filipino_grade + english_grade + science_grade + pe_grade) / 5
Step 9: Print"name + "this is your GWA", gwa
Step 10: If: gwa = 100
            print:"You got a Excellent grade!"
        elif: gwa >= 90
            print:"You got an Very Good grade!"
        elif: gwa >= 80
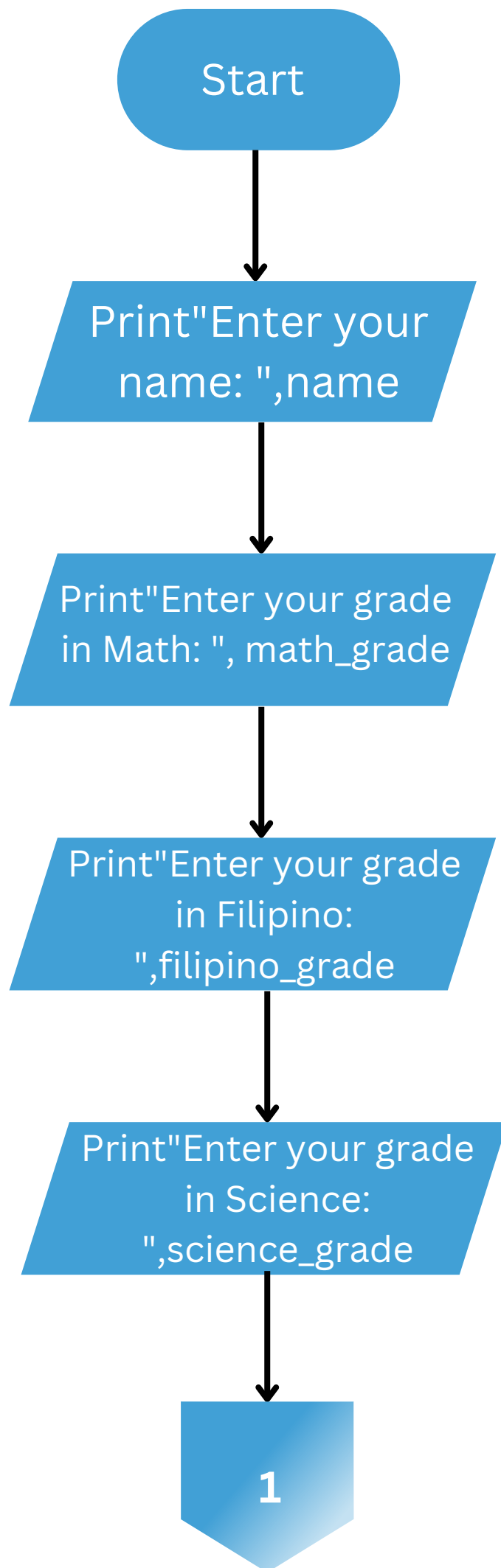   print: "You got an Very Satisfactory grade!"
        elif: gwa >= 70
            print: "You got an Passed grade!"
        else:
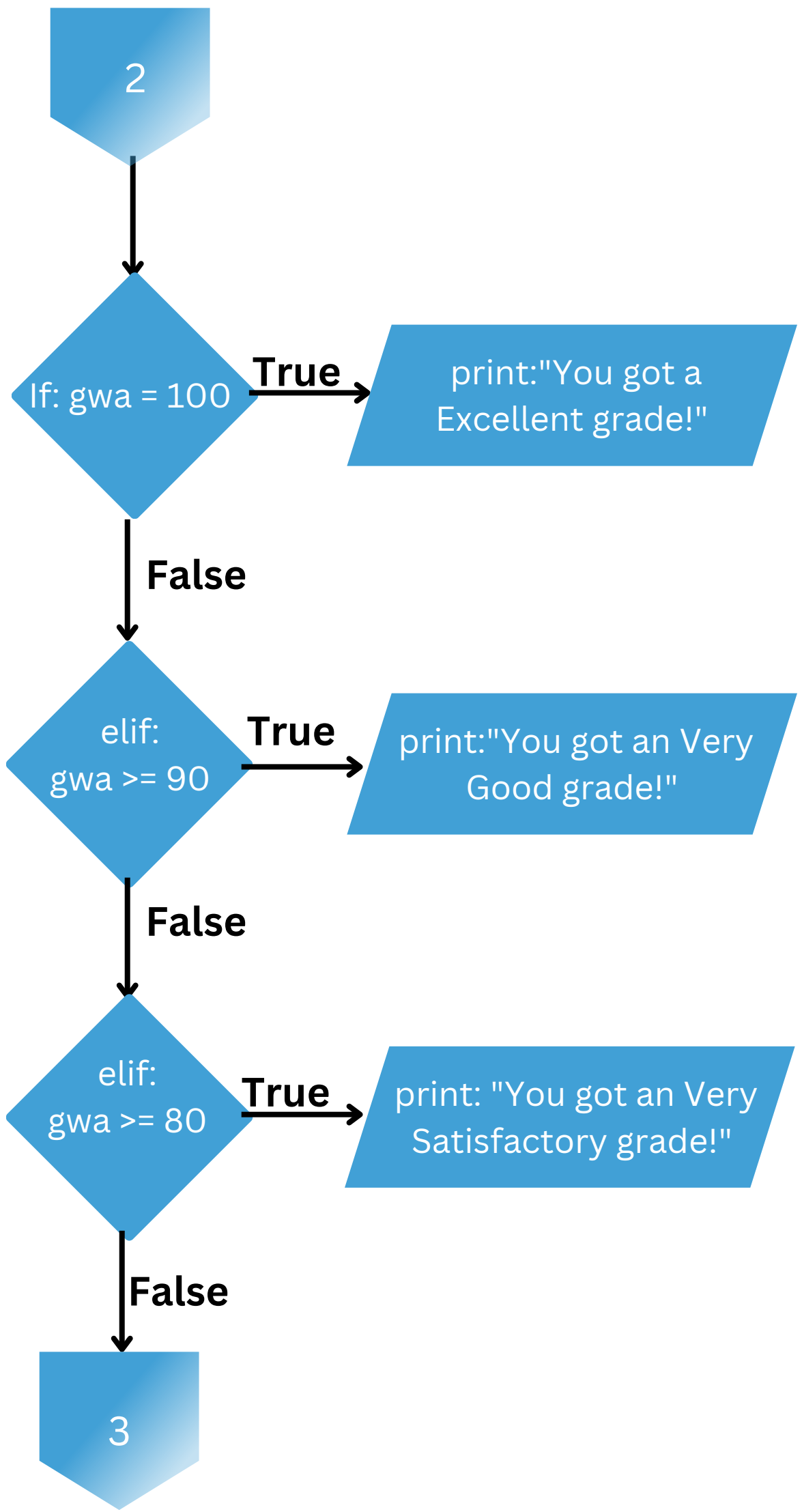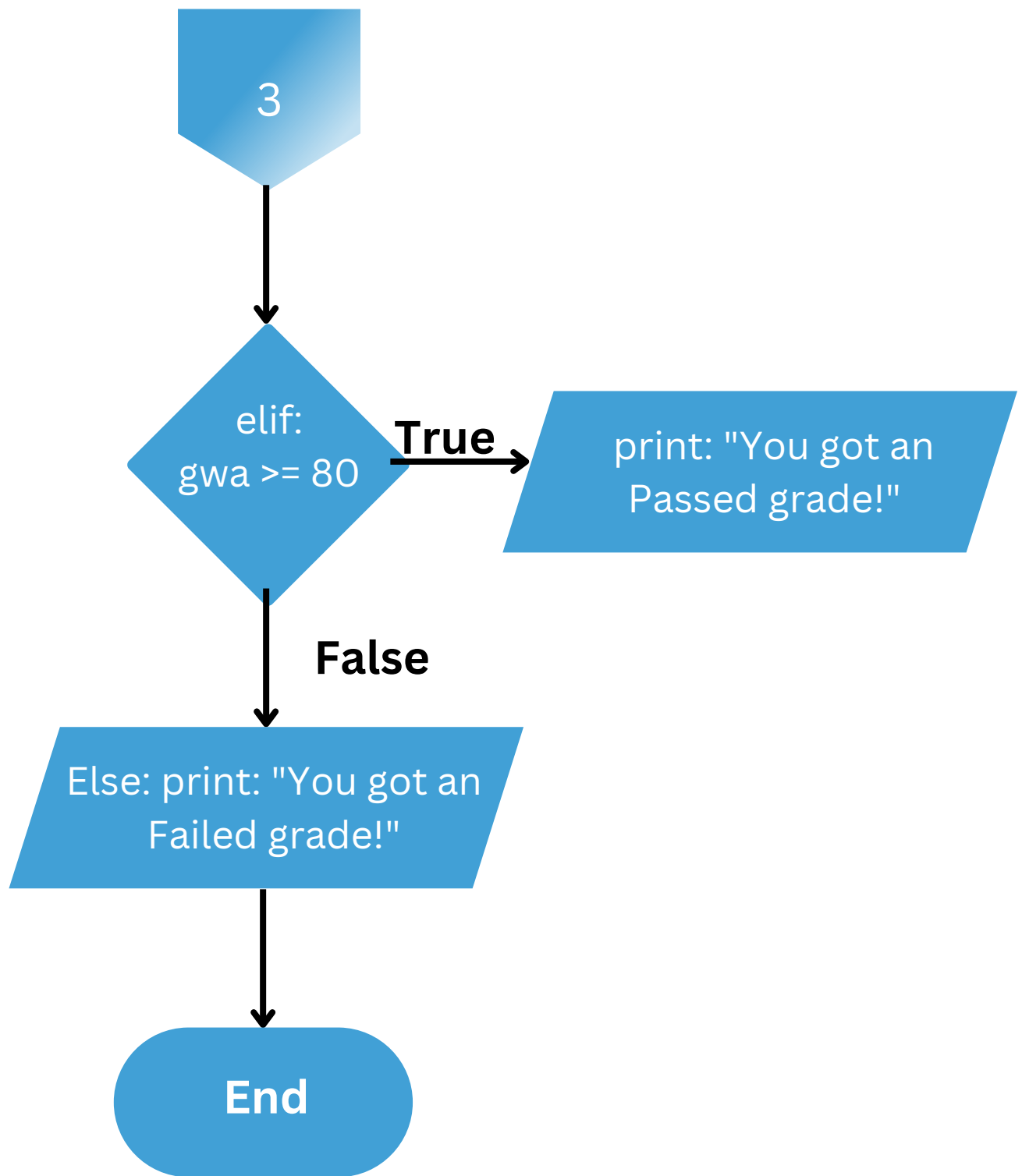   print: "You got an Failed grade!"
Step 11: End

```
Start
```

Print"Enter your name: ",name

Print"Enter your grade in Math: ", math_grade

Print"Enter your grade in Filipino: ",filipino_grade

Print"Enter your grade in Science: ",science_grade

1

1

Print"Enter your grade in P. E.: ",pe_grade

Read: gwa = (math_grade + filipino_grade + english_grade + science_grade + pe_grade) / 5

Print"name + "this is your GWA", gwa

2

```
    2

If: gwa = 100  ──True──▶  print:"You got a
                          Excellent grade!"
    │
  False
    │
    ▼
elif:
gwa >= 90     ──True──▶  print:"You got an Very
                          Good grade!"
    │
  False
    │
    ▼
elif:
gwa >= 80     ──True──▶  print: "You got an Very
                          Satisfactory grade!"
    │
  False
    │
    ▼
    3
```

Input

```python
# laboratory.py > ...
1    # Ask the user for their name and grades
2    name = input("Enter your name? ")
3    math_grade = float(input("Enter your grade in Math: "))
4    filipino_grade = float(input("Enter your grade in Filipino: "))
5    english_grade = float(input("Enter your grade in English: "))
6    science_grade = float(input("Enter your grade in Science: "))
7    pe_grade = float(input("Enter your grade in Physical Education: "))
8
9    # Calculate the GWA
10   gwa = (math_grade + filipino_grade + english_grade + science_grade + pe_grade) / 5
11
12   # Print the GWA and its equivalent
13   print("{}, your GWA is {:.2f}.".format(name, gwa))
14
15   if gwa >= 100:
16       print("You got an Excellent grade.")
17   elif gwa >= 90:
18       print("You got a Very Good grade.")
19   elif gwa >= 80:
20       print("You got a Very Sastisfactory Grade.")
21   elif gwa >= 70:
22       print("You got a Passed grade")
23   else:
24       print("You got a Failed grade")
25
```

Output

```
PS C:\Users\mjp_p\python> python -u "c:\Users\mjp_p\python\laboratory.py"
Enter your name? Mark John Pagarigan
Enter your grade in Math: 90
Enter your grade in Filipino: 92
Enter your grade in English: 94
Enter your grade in Science: 92
Enter your grade in Physical Education: 89
Mark John Pagarigan, your GWA is 91.40.
You got a Very Good grade.
PS C:\Users\mjp_p\python>
```