

```
import math
import random

while True:

    try:
        studentID = eval(input("Please enter your student ID "))
        name = input("Please enter your name ")
        semNums = eval(input("Please enter the numbers of semesters you did "))
        examScore = eval(input("please enter your score "))
        break
    except:
        print("please check your answer")

print("SUMMARY OF PROGRAM", "\n=====")
print("Student ID: ", studentID)
print("name: ", name)
print("Exam Score: ", examScore)

if examScore >= 90 <= 100:
    grade = "A"

elif examScore >= 80 <= 89:
    grade = "B"

elif examScore >= 70 <= 79:
    grade = "C"

elif examScore >= 60 <= 69:
    grade = "D"

elif examScore >= 0 <= 59:
    grade = "F"

print("Grade: ", grade)

if semNums == 3 and grade == "A":
    group = "Soaring the Eagles"

elif semNums == 3 and grade == "B":
    group = "Soaring the Eagles"

elif semNums == 2 and grade == "C":
    group = "Guiding the Cubs"
```

```
elif semNums == 2 and grade == "D":  
    group = "Guiding the Cubs"  
  
elif semNums == 1 and grade == "F":  
    group = "Coaching the Pandas"  
  
else:  
    group = "Currently unavailable"  
  
print("Self-improvement program: ", group)
```

IPO

Input:

Declare variables, get and prompt: StudentID, name, semNums, examScore

Process:

If examScore is within ranges 90 to 100, 80 to 89, 70 to 79, 60 to 69 and 0 to 59

Gets grade

if semNums match the semesters taken from semNums, gets the correct grades from the prompt results or else just make results for the self-improvement program unavailable.

Output:

Display studentID, name, examScore, grade and group of self-improvement program

```
PS E:\ATOM_folder> & "C:/python/python 3.10.5/python.exe" "e:/ATOM_folder/notes/University Technology Petronas/SAP/Assignment.py"
Please enter your student ID 20737
Please enter your name Afnan Amirruddin
Please enter the numbers of semesters you did 3
please enter your score 90
SUMMARY OF PROGRAM
=====
Student ID: 20737
name: Afnan Amirruddin
Exam Score: 90
Grade: A
Self-improvement program: Soaring the Eagles
PS E:\ATOM_folder> █
```

```
PS E:\ATOM_folder> & "C:/python/python 3.10.5/python.exe" "e:/ATOM_folder/notes/University Technology Petronas/SAP/Assignment.py"
Please enter your student ID 22008723
Please enter your name Clement
Please enter the numbers of semesters you did 1
please enter your score 25
SUMMARY OF PROGRAM
=====
Student ID: 22008723
name: Clement
Exam Score: 25
Grade: F
Self-improvement program: Coaching the Pandas
PS E:\ATOM_folder> █
```

```
PS E:\ATOM_folder> & "C:/python/python 3.10.5/python.exe" "e:/ATOM_folder/notes/University Technology Petronas/SAP/Assignment.py"
Please enter your student ID 69
Please enter your name Your mom
Please enter the numbers of semesters you did 2
please enter your score 80
SUMMARY OF PROGRAM
=====
Student ID: 69
name: Your mom
Exam Score: 80
Grade: B
Self-improvement program: Currently unavailable
PS E:\ATOM_folder> █
```