**Driver Program – Pseudo-Code:**

1. Print "Enter username and password"
2. Get username and Password
3. **While** (username AND password **Not** = -1)

* 1. ReturnVariable = authenticate(username,password)
  2. If ReturnVariable = True then Print “Welcome, what operation would you like to do?

-Student Management -Grade Management -END

* 1. Get response
  2. **While** response **Not** = “END”
     1. If response = “student management” then classManagement()
     2. Else if response = “grade management” then gradeManagement()
     3. Else Print “Operation not possible”
     4. End if
     5. Print What operation would you like to do?

-Student Management -Grade Management -END

* + 1. Get response

**End Loop**

* 1. Else Print “Enter username and password”
  2. Get username and password

**End Loop**

1. Print Program has been terminated
2. End

**\*\*\*\*Authenticate predefined process Pseudo-Code:**

1. Username and password Parameter passed to Predefined process
2. For index = 0 to index < userNameDatabase length; index++ Do

If username = userNameDatabase(index) and password = passwordDatabase(index) Then

* + 1. Return True
    2. Exit predefined process

End If

End For

1. Return False
2. End Predefined process

**StudentManagement predefined process Pseudo-Code:**

1. Print “Would you like to add a student or remove a student?

2.Get response

3.**While**  response **Not** = “END”

If response = “add” then

* + 1. Print “Enter the student’s name”
    2. Get student name
    3. Add the student to the list

End if

Else if response = “remove” then

* + 1. Print the list of students
    2. Print “What student would you to remove?”
    3. Get student name

If the student is on the list

* + - 1. Remove the student from the list

Else Print “That student is not on the list”

End if

Else

* + 1. Print “That action is unavailable

1.Print “Would you like to add a student or remove a student?

2.Get Response

**End Loop**

4.End Predefined process

For the below process u should ask what exam should the grade be used on

**GradeManagement predefined process Pseudo-Code:**

1. Print “Would you like to add or remove an exam?”

2.Get response

3.**While** response **Not** equal “END”

If response = “add” then

* 1. Print the list of student names
  2. Print “What student would you like to add an exam to? What is the exam number? What is the grade?”
  3. Get response

If the student is on the list

* + 1. Add grade to student’s exam list

Else Print “The student is not on the list”

End if

Else if response = “remove” then

1. Print the list of students name
2. Print “Whose exam would you like to remove?”
3. Get response

If the student is on the list

1. Remove exam from the list

Else Print “The student is not on the list”

End if

1. Show the students exam list
2. Print “What exam would you like to remove?”
3. Get response

Else Print “That is not an available option”

End if

1. Print “Would you like to add or remove an exam?”

2. Get a response

**End Loop**

4.End Predefined process