

PSUEDOCODE.

USER CODE

initialize message queues

while run = 1

    if create

        Enter student name;  
        send name to Record\_Kepper;  
        Enter program name;  
        Send program name to Record\_Kepper;  
        Enter student number;  
        Send student name to Record\_Kepper;  
        Enter student GPA;  
        Send GPA to Record\_Kepper;

    if delete

        send operation to Record\_Kepper  
        Enter student number to delete  
        send operation to Record\_Kepper

    if average

        send operation to Record\_kepper  
        Enter program to check average

    if check\_gpa

        send operation to record\_kepper  
        Enter student number to get gpa

    if check\_name

        Send operation to record keeper  
        Enter student number to get name

    if students

        Send operation to Record\_kepper  
        enter program name to get all students

    if end

        set run to 0

    else

        error, enter correct instructions

exit

Record\_Kepper CODE

initialize message queues

create arraylist to store student records

```
while run = 1
```

```
    if create
```

```
        insert student name;  
        Insert program name;  
        insertt student number;  
        Insert student GPA;
```

```
    if Student_name
```

```
        find with student number in array  
        print student name
```

```
        print average
```

```
    if check_gpa
```

```
        find with student number corresponding gpa in array  
        print student name
```

```
    if program_name
```

```
        Check the array for all students in program  
        Prints all students
```

```
    if delete
```

```
        search for number recieved in array  
        delete number found
```

```
    if end
```

```
        set run to 0
```

```
exit
```