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INSTRUCTIONS TO CANDIDATES:

1. Submit your assignment online in MS Teams unless advised otherwise.
2. Late submission will be awarded zero (0) unless Extenuating Circumstances (EC) are upheld.
3. Cases of plagiarism will be penalized.
4. You must obtain at least 50% in each component to pass this module.

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1.0 Introduction

CHAMPION CLUB is a popular Sport Center that are growing in Malaysia. The Club is in three locations right now, these locations are Surabaya, Malang, and Lampung. CHAMPION CLUB provides only the best coaches for their respective sports, with 10 Main Sports are in the club teaching schedule. These are Basketball, Archery, Gymnastics, Volleyball, Badminton, Football, Swimming, Cricket, Table Tennis, and Tennis being separated in three locations. All coaches are paid between the range of RM 100 – RM 500, between their seniority, background, and past achievements both as an athlete or as a coach.

CHAMPION CLUB system is controlled by the admin staff from The Human Resources Department from Headquarter can access all records through the moderator. The data saving and filing used in the program depends on the location. So, for every type of data, there are 4 versions of it: All Locations, Surabaya, Malang, and Lampung. The nature of CHAMPION CLUB is also very open, as students can come anytime as long as their sport is scheduled that day. While the system has worked for now, the tedious and not very effective in showing any data. The open natureness of the club also can create a problem, as data can be filed in a wrong location, causing confusion. The data also has been sorted based on the alphabet. These will cause ineffectiveness in searching any type of records. Guests can view public data, and also can registered to become a member/student. The student can access and modify their own data, their sport and schedule, also can give their coach a rating/feedback.

From the system above, the developers of CHAMPION CLUB want to upgrade their system and make it computerized. These upgrade hopefully will ease the process for admin, guests, and students to access the system, and their data.

2.0 Assumption

- I assume that with the system implemented, All user can login with the use of ID and Password.
- I assume the system can help the admin add records.
- I assume the system can help the admin display available records.
- I assume the system can help the admin to search a specific record based on the keyword provided.
- I assume the system can help the admin to sort and display data.
- I assume the system can help the admin to modify of available records.
- I assume the system can help guests to view detail of public information.
- I assume the system can help guests to register to become a registered member/student.
- I assume the system can help students to view their own and any related data.
- I assume the system can help students to modify their own information.
- I assume the system can help students to give a rating and feedback to their coaches.
- I assume the system can automatically provides an ID when adding a data to prevent any duplication take place.

3.0 Design – Pseudocode

Functionalities of Admin

1. ROLE SELECTION

```
FUNCTION role_selection()
    begin
        declare RS_select
        print(60*" - ")
        print("\tWELCOME TO CHAMPION CLUB!")
        print("\tVIOLENCE, SPEED, MOMENTUM!")
        print("\nPlease choose the role : ")
            "\n1. Admin"
            "\n2. Student"
            "\n3. Guest"
            "\n4. Exit")
        print("Please enter your choice based on the number : ")
        read RS_select

        while(RS_select >= -100)
            if(RS_select == 1)
                call admin_login()
            else if (RS_select == 2)
                call reg_login()
            else if (RS_select == 3)
                call guest_main_menu()
            else if (RS_select == 4)
                call exit_menu()
```

```
        else
            while(RS_select >4 OR RS_select < 1)
                print("\nInvalid number!")
                print("Please enter your choice based on the number : ")
                read RS_select
            end while
        end if
    end while
end.
```

2. EXIT MENU

FUNCTION exit_menu()

```
    begin
        declare exitmenu_des
        print(60*" - ")
        print("\tWELCOME TO CHAMPION CLUB!")
        print("\tVIOLENCE, SPEED, MOMENTUM!")
        print("Thankyou, Have a nice day!")
        print("Press '1' to go back to Role Selection, or enter any key to terminate the
        program")
        read exitmenu_des

        if(exitmenu_des == 1)
            call role_selection()
        end if
    end.
```

3. ADMIN LOGIN

FUNCTION admin_login()

begin

declare admin_ID, admin_pass, admin_login_choice

print(60*" -")

print("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

print("\nHello Admin. Please enter your identification : ")

print("ID NAME : ")

read admin_ID

print("PASSWORD : ")

read admin_pass

if(admin_ID == "edo14" and admin_pass == "test123")

admin_main_menu()

else:

print("Your ID or Password is incorrect, enter 1 to try again, or any other
key to exit : ")

read admin_login_choice

if (admin_login_choice == "1")

call admin_login()

else

call exit_menu()

end if

end if

end.

4. ADMIN MAIN MENU

FUNCTION admin_main_menu()

```
begin
    declare adminmm_select
    print(60*"~")
    print("\tWELCOME TO CHAMPION CLUB!")
    print("\tVIOLENCE, SPEED, MOMENTUM!")
    print("\nHello Admin, Please enter what records do you want to access : ")
    "\n1. Add Records"
    "\n2. Display All Records"
    "\n3. Search Specific Records"
    "\n4. Sort and Display Records"
    "\n5. Modify Records"
    "\n6. Log Out"
    "\n7. Exit")
    print("Please enter your choice based on the number : ")
    read adminmm_select

    while(adminmm_select >= -100)
        if(adminmm_select == 1)
            call add_main_menu()
        else if (adminmm_select == 2)
            call display_main_menu()
        else if (adminmm_select == 3)
            call search_main_menu()
        else if (adminmm_select == 4)
            call sort_main_menu()
```

```
        else if (adminmm_select == 5)
            call mod_main_menu()
        else if (adminmm_select == 6)
            call admin_login()
        else if (adminmm_select == 7)
            call exit_menu()
        else
            while(adminmm_select >7 OR adminmm_select < 1)
                print("\nInvalid number!")
                print("Please enter your choice based on the number : ")
                read adminmm_select
            end while
        end if
    end while
end.
```

5. ADD RECORDS MAIN MENU

FUNCTION add_main_menu()

```
begin
    declare addmm_select
    print(60*" - ")
    print("\tWELCOME TO CHAMPION CLUB!")
    print("\tVIOLENCE, SPEED, MOMENTUM!")
    print("\nHello Admin, Please enter what records do you want to add : ")
    "\n1. Add Coach Records"
    "\n2. Add Sport Records"
    "\n3. Add Sport Schedule Records"
```

```
"\n4. Back to Admin Main Menu"

"\n5. Exit")

print("Please enter your choice based on the number : ")

read addmm_select

while(addmm_select >= -100)
    if(addmm_select == 1)
        call add_coach()
    else if (addmm_select == 2)
        call add_sport()
    else if (addmm_select == 3)
        call add_schedule()
    else if (addmm_select == 4)
        call admin_main_menu()
    else if (addmm_select == 5)
        call exit_menu()
    else
        while(addmm_select >5 OR addmm_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read addmm_select
        end while
    end if
end while

end.
```

6. ADD RECORD OF COACH

FUNCTION add_coach()

begin

```
declare newcoach_IDcheck, newcoach_ID, newcoach_name, newcoach_datej,  
newcoach_datet, newcoach_pay, newcoach_phone, newcoach_address,  
newcoach_loc, newcoach_indicator, newcoach_sport, newcoach_sportn,  
newcoach_rating, newcoach_locn, newcoach_rating,newcoach_norating,  
newcoach_rsum, newcoach_final, newcoach_help, newcoach_des
```

```
declare newcoach_list = []
```

```
print(60*" -")
```

```
print("\tWELCOME TO CHAMPION CLUB!")
```

```
print("\tVIOLENCE, SPEED, MOMENTUM!")
```

```
newcoach_IDcheck = ID
```

```
call id_auto with Argument (newcoach_IDcheck), return to newcoach_ID
```

```
print("The New Coach's ID : ",newcoach_ID)
```

```
append newcoach_ID into newcoach_list
```

```
print("Enter the new coach's name : ")
```

```
read newcoach_name
```

```
append newcoach_name into newcoach_list
```

```
print("Enter the new coach's Join Date (dd/mm/yyyy) : ")
```

```
read newcoach_datej
```

```
append newcoach_datej into newcoach_list
```

```
print("Enter the new coach's Termination Date (If new, enter --/--/----) : ")
```

```
read newcoach_datet
```

```
append newcoach_datet into newcoach_list
```

```
print("Enter the new coach's Hourly Rates in RM (Example : if 200 MYR/Hr,  
then enter '200')(Range of pay is 100-500RM per hr) : ")
```

```
read newcoach_pay
```

```
while (newcoach_pay>500 OR newcoach_pay<100)
```

```
    print("Wrong Input! The pay is out of range")
```

```
    print("Enter the new coach's Hourly Rates in RM (Example : if 200  
MYR/Hr, then enter '200')(Range of pay is 100-500RM per hr) : ")
```

```
    read newcoach_pay
```

```
end while
```

```
append (newcoach_pay," RM/Hr") into newcoach_list
```

```
print("Enter the new coach Location's ID (Type 'help' if the Location ID list is  
needed) : ")
```

```
read newcoach_loc
```

```
while (newcoach_loc == help or newcoach_loc == HELP or newcoach_loc ==  
Help)
```

```
    Open File "help_locationID.txt" in Read mode
```

```
    print("help_locationID.txt")
```

```
    Close File "help_locationID.txt"
```

```
    print("Enter the new coach Location's ID (Type 'help' if the Location ID  
list is needed) : ")
```

```
    read newcoach_loc
```

```
end while
```

```
newcoach_indicator = 0
```

```
while (newcoach_indicator == 0)
```

```
    if (newcoach_loc == L001)
```

```
        newcoach_indicator = 1
        append newcoach_loc into newcoach_list
        append "Surabaya" into newcoach_list
    else if (newcoach_loc == L002)
        newcoach_indicator = 1
        append newcoach_loc into newcoach_list
        append "Malang" into newcoach_list
    else if (newcoach_loc == L003)
        newcoach_indicator = 1
        append newcoach_loc into newcoach_list
        append "Lampung" into newcoach_list
    else
        print("Wrong Input!")
        print("Enter the new coach Location's ID (Type 'help' if the
        Location ID list is needed) : ")
        read newcoach_loc
        while (newcoach_loc == help or newcoach_loc == HELP or
        newcoach_loc == Help)
            Open File "help_locationID.txt" in Read mode
            print("help_locationID.txt")
            Close File "help_locationID.txt"
            print("Enter the new coach Location's ID (Type 'help' if the
            Location ID list is needed) : ")
            read newcoach_loc
        end if
    end while
end while

call help_sport with Argument (newcoach_loc)
```

```
print("Enter the new coach Sport's ID : ")

read newcoach_sport

append newcoach_sport into newcoach_list


call sportname_search with Argument (newcoach_sport), return to
newcoach_sportn

append newcoach_sportn into newcoach_list


print("Enter the new coach's Rating (Enter '0.0' if the coach is new) : ")

read newcoach_rating

append newcoach_rating into newcoach_list


newcoach_norating = 0

append newcoach_norating into newcoach_list


call recordscoach_display with Argument (newcoach_list)


newcoach_locn = newcoach_list[8]

newcoach_pay = newcoach_list[4]

newcoach_rsum = 0


newcoach_final =(newcoach_ID+" | "+newcoach_name+" | "+newcoach_datej+" |
"+newcoach_datet+" | "+newcoach_pay+" | "+newcoach_phone+" |
"+newcoach_address+" | "+newcoach_loc+" | "+newcoach_locn+" |
"+newcoach_sport+" | "+newcoach_sportn+" | "+"R"+newcoach_rating+" |
"+newcoach_norating+" | "+newcoach_rsum+"\n")

print("Please enter '1' to enter the data into the database, or enter any key to quit
back to Add Main Menu : ")
```

```
read newcoach_des
if (newcoach_des == 1)
    Open File "allcoach.txt" in Append mode
    Append newcoach_final into "allcoach.txt"
    Close File "allcoach.txt"
    if (newcoach_loc == L001)
        Open File "coach1surabaya.txt" in Append Mode
        Append newcoach_final into "coach1surabaya.txt"
        Close File "coach1surabaya.txt"
    else if (newcoach_loc == L002)
        Open File "coach2malang.txt" in Append Mode
        Append newcoach_final into "coach2malang.txt"
        Close File "coach2malang.txt"
    else if (newcoach_loc == L003)
        Open File "coach3lampung.txt" in Append Mode
        Append newcoach_final into "coach3lampung.txt"
        Close File "coach3lampung.txt"
    end if
    print("Save Successful!\nPress anything to go back to Add Main Menu")
    read newcoach_des
    call add_main_menu()
else
    print("OK, press anything to go back to Add Main Menu")
    read newcoach_des
    call add_main_menu()
end if
end.
```


7. ADD RECORD OF SPORT

FUNCTION add_sport()

begin

declare newsport_IDcheck, newsport_ID, newsport_name, newsport_loc,
newsport_indicator, newsport_final, newsport_help, newsport_des

declare newsport_list = []

print(60*" -")

print("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

newsport_IDcheck = S

call id_auto with Argument (newsport_IDcheck), return to newsport_ID

print("The New Sport's ID : ",newsport_ID)

append newsport_ID into newsport_list

print("Enter the new sport's name : ")

read newsport_name

append newsport_name into newsport_list

print("Enter the new sport Location's ID (Type 'help' if the Location ID list is
needed) : ")

read newsport_loc

while (newsport_loc == help or newsport_loc == HELP or newsport_loc ==
Help)

Open File "help_locationID.txt" in Read mode

print("help_locationID.txt")

Close File "help_locationID.txt"

```
        print("Enter the new sport Location's ID (Type 'help' if the Location ID list
        is needed) : ")

        read newsport_loc

    end while

    newsport_indicator = 0
    while (newsport_indicator == 0)
        if (newsport_loc == L001)
            newsport_indicator = 1
            append newsport_loc into newsport_list
            append "Surabaya" into newsport_list
        else if (newsport_loc == L002)
            newsport_indicator = 1
            append newsport_loc into newsport_list
            append "Malang" into newsport_list
        else if (newsport_loc == L003)
            newsport_indicator = 1
            append newsport_loc into newsport_list
            append "Lampung" into newsport_list
        else
            print("Wrong Input!")

            print("Enter the new sport Location's ID (Type 'help' if the
            Location ID list is needed) : ")

            read newsport_loc

            while (newsport_loc == help or newsport_loc == HELP or
            newsport_loc == Help)

                Open File "help_locationID.txt" in Read mode

                print("help_locationID.txt")
```

```
        Close File "help_locationID.txt"

        print("Enter the new sport Location's ID (Type 'help' if the
        Location ID list is needed) : ")

        read newsport_loc

    end if

end while

call recordssport_display with Argument (newsport_list)

newsport_locn = strnewsport_list[3]

newsport_final = (newsport_ID+" | "+newsport_name+" | "+newsport_loc+" |
"+newsport_locn+"\n")

print("Please enter '1' to enter the data into the database, or enter any key to quit
back to Add Main Menu : ")

read newsport_des

if (newsport_des == 1)

    Open File "allsport.txt" in Append mode

    Append newsport_final into "allsport.txt"

    Close File "allsport.txt"

    if (newsport_loc == L001)

        Open File "sport1surabaya.txt" in Append Mode

        Append newsport_final into "sport1surabaya.txt"

        Close File "sport1surabaya.txt"

    else if (newsport_loc == L002)

        Open File "sport2malang.txt" in Append Mode

        Append newsport_final into "sport2malang.txt"

        Close File "sport2malang.txt"

    else if (newsport_loc == L003)
```

```
        Open File "sport3lampung.txt" in Append Mode
        Append newsport_final into "sport3lampung.txt"
        Close File "sport3lampung.txt"

    end if

    print("Save Successful!\nPress anything to go back to Add Main Menu")
    read newsport_des
    call add_main_menu()

else

    print("OK, press anything to go back to Add Main Menu")
    read newsport_des
    call add_main_menu()

end if

end.
```

8. ADD RECORD OF SCHEDULE

FUNCTION add_schedule()

```
begin

    declare newsch_IDcheck, newsch_ID, newsch_LID, newsch_indicator,
    newsch_SID, newsch_SIDn, newsch_CID, newsch_CID, newsch_CIDn,
    newsch_day, newsch_stime, newsch_stimet, newsch_dura, newsch_schID,
    newsch_LIDn, newsch_stimef, newsch_duraf, newsch_final, newsch_des

    declare newsch_list = []

    print(60*" - ")

    print("\tWELCOME TO CHAMPION CLUB!")
    print("\tVIOLENCE, SPEED, MOMENTUM!")


    newsch_IDcheck = SCH

    call id_auto with Argument (newsch_IDcheck), return to newsch_ID
```

```
print("The New Schedule's ID : ",newsport_ID)

append newsch_ID into newsch_list


print("Enter the new schedule Location's ID (Type 'help' if the Location ID list is
needed) : ")

read newsch_LID

while (newsch_LID == help or newsch_LID == HELP or newsch_LID == Help)

    Open File "help_locationID.txt" in Read mode

    print("help_locationID.txt")

    Close File "help_locationID.txt"

    print("Enter the new schedule Location's ID (Type 'help' if the Location
ID list is needed) : ")

    read newsch_LID

end while


newsch_indicator = 0

while (newsch_indicator == 0)

    if (newsch_LID == L001)

        newsch_indicator = 1

        append newsch_LID into newsch_list

        append "Surabaya" into newsch_list

    else if (newsch_LID == L002)

        newsch_indicator = 1

        append newsch_LID into newsch_list

        append "Malang" into newsch_list

    else if (newsch_LID == L003)

        newsch_indicator = 1

        append newsch_LID into newsch_list
```

```
        append "Lampung" into newsch_list
    else
        print("Wrong Input!")
        print("Enter the new schedule Location's ID (Type 'help' if the
        Location ID list is needed) : ")
        read newsch_LID
        while (newsch_LID == help or newsch_LID == HELP or
        newsch_LID == Help)
            Open File "help_locationID.txt" in Read mode
            print("help_locationID.txt")
            Close File "help_locationID.txt"
            print("Enter the new schedule Location's ID (Type 'help' if
            the Location ID list is needed) : ")
            read newsch_LID
        end if
    end while
end while

call help_sport with Argument (newsch_LID)
print("Enter the Sport's ID of the lesson : ")
read newsch_SID
append newsch_SID into newsch_list

call sportname_search with Argument (newsch_SID), return into newsch_SIDn
append newsch_SIDn into newsch_list

call help_coach with Argument (newsch_LID,newsch_SID)
print("Enter the Coach's ID of the lesson : ")
read newsch_CID
```

```
append newsch_CID into newsch_list
```

```
call coachname_search with Argument (newsch_CID), return into newsch_CIDn
```

```
append newsch_CIDn into newsch_list
```

```
print("Enter the lesson day in number (Monday is 1) (Type 'help' if the number  
list is needed) : ")
```

```
read newsch_day
```

```
while (newsch_day == "help" OR newsch_day == "HELP" OR newsch_day ==  
"Help")
```

```
    print ("The Day Number List : \nMonday\t\t= 1\nTuesday\t\t=  
2\nWednesday\t= 3\nThursday\t\t= 4\nFriday\t\t\t= 5\nSaturday\t\t=  
6\nSunday\t\t\t= 7")
```

```
    print("Enter the lesson day in number (Monday is 1) (Type 'help' if the  
number list is needed) : ")
```

```
    read newsch_day
```

```
end while
```

```
while (newsch_day>7 OR newsch_day<1)
```

```
    print("Wrong Input!")
```

```
    print("Enter the lesson day in number (Monday is 1) (Type 'help' if the  
number list is needed) : ")
```

```
    read newsch_day
```

```
    while (newsch_day == "help" or newsch_day == "HELP" or newsch_day  
    == "Help")
```

```
        print ("The Day Number List : \nMonday\t\t= 1\nTuesday\t\t=  
2\nWednesday\t= 3\nThursday\t\t= 4\nFriday\t\t\t= 5\nSaturday\t\t=  
6\nSunday\t\t\t= 7")
```

```
        print("Enter the lesson day in number (Monday is 1) (Type 'help' if  
the number list is needed) : ")
```

```
        read newsch_day
    end while

    if(newsch_day == 1)
append "Monday" into newsch_list
    else if(newsch_day == 2)
        append "Tuesday" into newsch_list
    else if(newsch_day == 3)
        append "Wednesday" into newsch_list
    else if(newsch_day == 4)
        append "Thursday" into newsch_list
    else if(newsch_day == 5)
        append "Friday" into newsch_list
    else if(newsch_day == 6)
        append "Saturday" into newsch_list
    else if(newsch_day == 7)
        append "Sunday" into newsch_list
    end if

    print("Enter the lesson starting time in thousand (05.00 = 5 am, 17.00 = 5
pm)(Type 'help' if assistance is needed) : ")

    read newsch_stime

    while (newsch_stime == "help" OR newsch_stime == "HELP" OR newsch_stime
== "Help")

        Open File "help_time.txt" in Read Mode

        print("help_time.txt")

        Close File "help_time.txt"
```

```
        print("Enter the lesson starting time in thousand (05.00 = 5 am, 17.00 = 5
        pm)(Type 'help' if assistance is needed) : ")

        read newsch_stime

    end while

    newsch_stimet = newsch_stime

    while (newsch_stime<00.00 OR newsch_stime>23.59)

        print("Wrong Input!")

        print("Enter the lesson starting time in thousand (05.00 = 5 am, 17.00 = 5
        pm)(Type 'help' if assistance is needed) : ")

        read newsch_stime

        while (newsch_stime == "help" OR newsch_stime == "HELP" OR
        newsch_stime == "Help")

            Open File "help_time.txt" in Read Mode

            print("help_time.txt")

            Close File "help_time.txt"

            print("Enter the lesson starting time in thousand (05.00 = 5 am,
            17.00 = 5 pm)(Type 'help' if assistance is needed) : ")

            read newsch_stime

        end while

        newsch_stimet = newsch_stime

    end while

    if (newsch_stime>= 00.00 and newsch_stime<=11.59)

        append (newsch_stimet+" AM") into newsch_list

    else

        append (newsch_stimet+" PM") into newsch_list
```

```
end if

print("Enter the lesson time duration in minutes (1 Hour = 60 Minutes)(Maximum
Duration is 180 Minutes/3 Hours) : ")

read newsch_dura

while (newsch_dura<0 or newsch_dura>180)

    print("Wrong Input!")

    print("Enter the lesson time duration in minutes (1 Hour = 60
Minutes)(Maximum Duration is 180 Minutes/3 Hours) : ")

    read newsch_dura

end while

append (newsch_dura+" Minutes") into newsch_list

call recordsschedule_display with Argument (newsch_list)

newsch_schID = newsch_list[0]
newsch_LIDn = newsch_list[2]
newsch_day = newsch_list[7]
newsch_stimef = newsch_list[8]
newsch_duraf = newsch_list[9]

newsch_final = (newsch_schID+" | "+newsch_LID+" | "+newsch_LIDn+" |
"+newsch_SID+" | "+newsch_SIDn+" | "+newsch_CID+" | "+newsch_CIDn+" |
"+newsch_day+" | "+newsch_stimef+" | "+newsch_duraf+"\n")

print("Please enter '1' to enter the data into the database, or enter any key to quit
back to Add Main Menu : ")

read newsch_des

if (newsch_des == 1)

    Open File "allsportschedule.txt" in Append mode

    Append newsch_final into "allsportschedule.txt"
```

```
    Close File "allsportschedule.txt"

    if (newsch_LID == L001)

        Open File "sportschedule1surabaya.txt" in Append Mode
        Append newsch_final into "sportschedule1surabaya.txt"
        Close File "sportschedule1surabaya.txt"

    else if (newsch_LID == L002)

        Open File "sportschedule2malang.txt" in Append Mode
        Append newsch_final into "sportschedule2malang.txt"
        Close File "sportschedule2malang.txt"

    else if (newsch_LID == L003)

        Open File "sportschedule3lampung.txt" in Append Mode
        Append newsch_final into "sportschedule3lampung.txt"
        Close File "sportschedule3lampung.txt"

    end if

    print("Save Successful!\nPress anything to go back to Add Main Menu")
    read newsch_des
    call add_main_menu()

else

    print("OK, press anything to go back to Add Main Menu")
    read newsch_des
    call add_main_menu()

end if

end.
```

9. DISPLAY MAIN MENU

FUNCTION display_main_menu()

```
    begin
```

```
declare recordsmm_select

print(60*"~")

print("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

print("\nHello Admin, Please enter what records do you want to display : ")

"\n1. Display Coach Records"

"\n2. Display Sport Records"

"\n3. Display Registered Student Records"

"\n4. Back to Admin Main Menu"

"\n5. Exit")

print("Please enter your choice based on the number : ")

read recordsmm_select


while(recordsmm_select >= -100)
    if(recordsmm_select == 1)
        call display_coach()
    else if (recordsmm_select == 2)
        call display_sport()
    else if (recordsmm_select == 3)
        call display_reg()
    else if (recordsmm_select == 4)
        call admin_main_menu()
    else if (recordsmm_select == 5)
        call exit_menu()
    else
        while(recordsmm_select >5 OR recordsmm_select < 1)
            print("\nInvalid number!")
```

```
        print("Please enter your choice based on the number : ")
        read recordsmm_select
    end while
end if
end while
end.
```

10. DISPLAY RECORDS OF COACH

FUNCTION display_coach()

```
begin
    declare recordscoach_select
    declare recordscoach_list = []
    print(60*" - ")
    print("\tWELCOME TO CHAMPION CLUB!")
    print("\tVIOLENCE, SPEED, MOMENTUM!")
    print("\nHello Admin, Please enter what records do you want to display : ")
        "\n1. Coach in all Locations"
        "\n2. Coach in Surabaya"
        "\n3. Coach in Malang"
        "\n4. Coach in Lampung"
        "\n5. Back to Display Main Menu"
        "\n6. Exit")
    print("Please enter your choice based on the number : ")
    read recordscoach_select

    while(recordscoach_select >= 0)
        if(recordscoach_select == 1)
```

Open File "allcoach.txt" in Read Mode

LOOP line in "allcoach.txt"

call str_to_list_convert with Argument (line), return to
recordscoach_list

call recordscoach_display with Argument
(recordscoach_list)

end LOOP

Close File "allcoach.txt"

print("Press anything to go back to Records Main Menu")

read recordscoach_select

call display_main_menu()

else if (recordscoach_select == 2)

Open File "coach1surabaya.txt" in Read Mode

LOOP line in "coach1surabaya.txt"

call str_to_list_convert with Argument (line), return to
recordscoach_list

call recordscoach_display with Argument
(recordscoach_list)

end LOOP

Close File "coach1surabaya.txt"

print("Press anything to go back to Records Main Menu")

read recordscoach_select

call display_main_menu()

else if (recordscoach_select == 3)

Open File "coach2malang.txt" in Read Mode

LOOP line in "coach2malang.txt"

call str_to_list_convert with Argument (line), return to
recordscoach_list

```
        call recordscoach_display with Argument
        (recordscoach_list)

    end LOOP

    Close File "coach2malang.txt"

    print("Press anything to go back to Records Main Menu")

    read recordscoach_select

    call display_main_menu()

else if (recordscoach_select == 4)

    Open File "coach3lampung.txt" in Read Mode

    LOOP line in "coach3lampung.txt"

        call str_to_list_convert with Argument (line), return to
        recordscoach_list

        call recordscoach_display with Argument
        (recordscoach_list)

    end LOOP

    Close File "coach3lampung.txt"

    print("Press anything to go back to Records Main Menu")

    read recordscoach_select

    call display_main_menu()

else if (recordscoach_select == 5)

    call display_main_menu()

else if (recordscoach_select == 6)

    call exit_menu()

else

    while(recordscoach_select >6 OR recordscoach_select < 1)

        print("\nInvalid number!")

        print("Please enter your choice based on the number : ")

        read recordscoach_select
```

```
        end while
    end if
end while
end.
```

11. DISPLAY RECORDS OF SPORT

FUNCTION display_sport()

```
begin
    declare recordssport_select
    declare recordssport_list = []
    print(60*" - ")
    print("\tWELCOME TO CHAMPION CLUB!")
    print("\tVIOLENCE, SPEED, MOMENTUM!")
    print("\nHello Admin, Please enter what records do you want to display : ")
    "\n1. Sport in all Locations"
    "\n2. Sport in Surabaya"
    "\n3. Sport in Malang"
    "\n4. Sport in Lampung"
    "\n5. Back to Display Main Menu"
    "\n6. Exit")
    print("Please enter your choice based on the number : ")
    read recordssport_select

    while(recordssport_select >= 0)
        if(recordssport_select == 1)
            Open File "allsport.txt" in Read Mode
            LOOP line in "allsport.txt"
```



```
        call str_to_list_convert with Argument (line), return to
        recordssport_list

        call recordssport_display with Argument (recordssport_list)
    end LOOP

    Close File "allsport.txt"

    print("Press anything to go back to Records Main Menu")

    read recordssport_select

    call display_main_menu()

else if (recordssport_select == 2)

    Open File "sport1surabaya.txt" in Read Mode

    LOOP line in "sport1surabaya.txt"

        call str_to_list_convert with Argument (line), return to
        recordssport_list

        call recordssport_display with Argument (recordssport_list)
    end LOOP

    Close File "sport1surabaya.txt"

    print("Press anything to go back to Records Main Menu")

    read recordssport_select

    call display_main_menu()

else if (recordssport_select == 3)

    Open File "sport2malang.txt" in Read Mode

    LOOP line in "sport2malang.txt"

        call str_to_list_convert with Argument (line), return to
        recordssport_list

        call recordssport_display with Argument (recordssport_list)
    end LOOP

    Close File "sport2malang.txt"

    print("Press anything to go back to Records Main Menu")
```

```
        read recordssport_select
        call display_main_menu()
    else if (recordssport_select == 4)
        Open File "sport3lampung.txt" in Read Mode
        LOOP line in "sport3lampung.txt"
            call str_to_list_convert with Argument (line), return to
            recordssport_list
            call recordssport_display with Argument (recordssport_list)
        end LOOP
        Close File "sport3lampung.txt"
        print("Press anything to go back to Records Main Menu")
        read recordssport_select
        call display_main_menu()
    else if (recordssport_select == 5)
        call display_main_menu()
    else if (recordssport_select == 6)
        call exit_menu()
    else
        while(recordssport_select >6 OR recordssport_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read recordssport_select
        end while
    end if
end while
end.
```

12. DISPLAY RECORDS OF REGISTERED STUDENT

FUNCTION display_reg()

```
begin
    declare recordsreg_select
    declare recordsreg_list = []
    print (60*"~")
    print ("\tWELCOME TO CHAMPION CLUB!")
    print ("\tVIOLENCE, SPEED, MOMENTUM!")
    print("\nHello Admin, Please enter what records do you want to display : ")
        "\n1. Registered Student in all Locations"
        "\n2. Registered Student in Surabaya"
        "\n3. Registered Student in Malang"
        "\n4. Registered Student in Lampung"
        "\n5. Back to Display Main Menu"
        "\n6. Exit")
    print("Please enter your choice based on the number : ")
    read recordsreg_select

    while(recordsreg_select >= 0)
        if(recordsreg_select == 1)
            Open File "allregstudent.txt" in Read Mode
            LOOP line in "allregstudent.txt" STEP 1
                call str_to_list_convert with Argument (line), return to
                recordsreg_list
                call recordsreg_display with Argument (recordsreg_list)
            end LOOP
            Close File "allregstudent.txt"
```

```
print("Press anything to go back to Records Main Menu")
read recordsreg_select
call display_main_menu()
else if (recordsreg_select == 2)
    Open File "regstudent1surabaya.txt" in Read Mode
    LOOP line in "regstudent1surabaya.txt"
        call str_to_list_convert with Argument (line), return to
        recordsreg_list
        call recordsreg_display with Argument (recordsreg_list)
    end LOOP
    Close File "regstudent1surabaya.txt"
    print("Press anything to go back to Records Main Menu")
    read recordsreg_select
    call display_main_menu()
else if (recordsreg_select == 3)
    Open File "regstudent2malang.txt" in Read Mode
    LOOP line in "regstudent2malang.txt"
        call str_to_list_convert with Argument (line), return to
        recordsreg_list
        call recordsreg_display with Argument (recordsreg_list)
    end LOOP
    Close File "regstudent2malang.txt"
    print("Press anything to go back to Records Main Menu")
    read recordsreg_select
    call display_main_menu()
else if (recordsreg_select == 4)
    Open File "regstudent3lampung.txt" in Read Mode
    LOOP line in "regstudent3lampung.txt"
```

```
        call str_to_list_convert with Argument (line), return to
        recordsreg_list

        call recordsreg_display with Argument (recordsreg_list)
    end LOOP

    Close File "regstudent3lampung.txt"

    print("Press anything to go back to Records Main Menu")

    read recordsreg_select

    call display_main_menu()

    else if (recordsreg_select == 5)
        call display_main_menu()
    else if (recordsreg_select == 6)
        exit_menu()
    else
        while(recordsreg_select >6 OR recordsreg_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read recordsreg_select
        end while
    end if
end while

end.
```

13. SEARCH MAIN MENU

FUNCTION search_main_menu()

```
    begin

        declare searchmm_select

        print (60*"-"")
```

```
print ("\tWELCOME TO CHAMPION CLUB!")
print("\tVIOLENCE, SPEED, MOMENTUM!")
print("\nHello Admin, Please enter what records do you want to search : "
"\n1. Search Coach by Coach ID"
"\n2. Search Coach by Overall Performance/Rating"
"\n3. Sport by Sport ID"
"\n4. Student by Student ID"
"\n5. Back to Admin Main Menu"
"\n6. Exit")
print("Please enter your choice based on the number : ")
read searchmm_select

while(searchmm_select >= -100)
    if(searchmm_select == 1)
        call search_coach_id()
    else if (searchmm_select == 2)
        call search_coach_rating()
    else if (searchmm_select == 3)
        call search_sport_id()
    else if (searchmm_select == 4)
        call search_student_id()
    else if (searchmm_select == 5)
        call admin_main_menu()
    else if (searchmm_select == 6)
        call exit_menu()
    else
        while(searchmm_select >6 OR searchmm_select < 1)
```

```
        print("\nInvalid number!")
        print("Please enter your choice based on the number : ")
        read searchmm_select
    end while
end if
end while
end.
```

14. SEARCH COACH BY COACH ID

FUNCTION search_coach_id()

begin

declare search_coachID

declare search_coachID_display = []

print (60*" -")

print ("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

print("Please Enter the ID of the Coach you want to search : ")

read search_coachID

Open File "allcoach.txt" in Read Mode

LOOP line in "allcoach.txt"

if search_coachID in line

call str_to_list_convert With Argument (line), return into
search_coachID_display

call recordscoach_display With Argument
(search_coachID_display)

end if

else

```
        print("No Data Found!")
    end LOOP
    Close File "allcoach.txt"
    print("Press any key to return back to Search Main Menu")
    read search_coachID
    call search_main_menu()
end.
```

15. SEARCH COACH BY RATING

```
FUNCTION search_coach_rating()
    begin
        declare search_coachrate
        declare search_coachrate_display = []
        print (60*" - ")
        print ("\tWELCOME TO CHAMPION CLUB!")
        print ("\tVIOLENCE, SPEED, MOMENTUM!")
        print("Please Enter the rating of the Coach you want to search(Rx.x) : ")
        read search_coachrate

        Open File "allcoach.txt" in Read Mode
        LOOP line in "allcoach.txt"
            if search_coachrate in line
                call str_to_list_convert With Argument (line), return into
                search_coachrate_display
                call recordscoach_display With Argument
                (search_coachrate_display)
            end if
        end LOOP
    else
```



```
        print("No Data Found!")
    end LOOP
    Close File "allcoach.txt"
    print("Press any key to return back to Search Main Menu")
    read search_coachrate
    call search_main_menu()
end.
```

16. SEARCH SPORT BY SPORT ID

FUNCTION search_sport_id()

```
begin
    declare search_sportID
    declare search_sportID_display = []
    print (60*" - ")
    print ("\tWELCOME TO CHAMPION CLUB!")
    print ("\tVIOLENCE, SPEED, MOMENTUM!")
    print("Please Enter the ID of the Sport you want to search(IDxxx) : ")
    read search_sportID

    Open File "allsport.txt" in Read Mode
    LOOP line in "allsport.txt"
        if search_sportID in line
            call str_to_list_convert With Argument (line), return into
            search_sportID_display
            call recordssport_display With Argument (search_sportID_display)
        end if
    else
```

```
        print("No Data Found!")
    end LOOP
    Close File "allsport.txt"
    print("Press any key to return back to Search Main Menu")
    read search_sportID
    call search_main_menu()
end.
```

17. SEARCH STUDENT BY STUDENT ID

FUNCTION search_student_id()

```
begin
    declare search_studentID
    declare search_studentID_display = []
    print (60*" - ")
    print ("\tWELCOME TO CHAMPION CLUB!")
    print ("\tVIOLENCE, SPEED, MOMENTUM!")
    print("Please Enter the ID of the student you want to search(IDxxx) : ")
    read search_studentID

    Open File "allregstudent.txt" in Read Mode
    LOOP line in "allregstudent.txt"
        if search_studentID in line
            call str_to_list_convert With Argument (line), return into
            search_studentID_display
            call recordsreg_display With Argument
            (search_studentID_display)
        end if
    else
```

```
        print("No Data Found!")
    end LOOP

    Close File "allregstudent.txt"

    print("Press any key to return back to Search Main Menu")

    read search_studentID

    call search_main_menu()

end.
```

18. SORT MAIN MENU

FUNCTION sort_main_menu()

```
begin

    declare sortmm_select

    print (60*" - ")

    print ("\tWELCOME TO CHAMPION CLUB!")

    print ("\tVIOLENCE, SPEED, MOMENTUM!")

    print ("\nHello Admin, Please enter what records do you want to sort in ascending
order : ")

    "\n1. Sort Coaches by Name"

    "\n2. Sort Coaches by Hourly Pay Rate"

    "\n3. Sort Coaches by Overall Performance/Rating"

    "\n4. Back to Admin Main Menu"

    "\n5. Exit")

    print("Please enter your choice based on the number : ")

    read sortmm_select

    while(sortmm_select >= -100)

        if(sortmm_select == 1)
```

```
        call sort_coach_name()
    else if (sortmm_select == 2)
        call sort_coach_pay()
    else if (sortmm_select == 3)
        call sort_coach_performance()
    else if (sortmm_select == 4)
        call admin_main_menu()
    else if (sortmm_select == 5)
        call exit_menu()
    else
        while(sortmm_select >5 OR sortmm_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read sortmm_select
        end while
    end if
end while
end.
```

19. SORT COACH BY NAME

FUNCTION sort_coach_name()

```
begin
    declare sortname_datalist = [], sortname_blist = [], sortname_alist = [],
    sortname_finallist = [], sortname_namelist = []

    declare sortname_length, a, b, x

    print (60*" - ")

    print ("\tWELCOME TO CHAMPION CLUB!")
```

```
print("\tVIOLENCE, SPEED, MOMENTUM!")
```

Open File "allcoach.txt" in Read mode

LOOP line in "allcoach.txt"

append line into sortname_datalist

call str_to_list_convert With Argument (line), return to sortname_namelist

append sortname_namelist[1] into sortname_blist

end LOOP

sortname_length = Length of sortname_blist

call bubble_sort With Argument (sortname_blist,sortname_length), return to
sortname_alist

a = 0

b = 0

while ((Length of sortname_finallist) != sortname_length)

if sortname_alist[a] in sortname_datalist[b]

append sortname_datalist[b] into sortname_finallist

Pop sortname_datalist, position (b)

a = a + 1

b = 0

else:

b = b + 1

end while

x = 0

```
while (x != (Length of sortname_finallist))  
    call recordscoach_display With Argument (call str_to_list_convert With  
        Argument (sortname_finallist[x]))  
    x = x + 1  
end while  
print("Press any key to return back to Sort Main Menu")  
read x  
call sort_main_menu()  
end.
```

20. SORT COACH BY PAY

FUNCTION sort_coach_pay()

```
begin  
    declare sortpay_datalist = [], sortpay_blist = [], sortpay_alist = [], sortpay_finallist  
    = [], sortpay_namelist = []  
    declare sortpay_length, a, b, x  
    print (60*"~")  
    print ("\tWELCOME TO CHAMPION CLUB!")  
    print("\tVIOLENCE, SPEED, MOMENTUM!")  
  
    Open File "allcoach.txt" in Read mode  
    LOOP line in "allcoach.txt"  
        append line into sortpay_datalist  
        call str_to_list_convert With Argument (line), return to sortpay_namelist  
        append sortpay_namelist[4] into sortpay_blist  
    end LOOP
```

```
sortpay_length = Length of sortpay_blist

call bubble_sort With Argument (sortpay_blist,sortpay_length), return to
sortpay_alist

a = 0
b = 0

while ((Length of sortpay_finallist) != sortpay_length)
    if sortpay_alist[a] in sortpay_datalist[b]
        append sortpay_datalist[b] into sortpay_finallist
        Pop sortpay_datalist, position (b)
        a = a + 1
        b = 0
    else:
        b = b + 1
end while

x = 0

while (x != (Length of sortpay_finallist))
    call recordscoach_display With Argument (call str_to_list_convert With
    Argument (sortpay_finallist[x]))
    x = x + 1
end while

print("Press any key to return back to Sort Main Menu")
read x
call sort_main_menu()

end.
```

21. SORT COACH BY PERFORMANCE

FUNCTION sort_coach_performance()

begin

declare sortperf_datalist = [], sortperf_blist = [], sortperf_alist = [],
sortperf_finallist = [], sortperf_namelist = []

declare sortperf_length, a, b, x

print (60*" -")

print ("\tWELCOME TO CHAMPION CLUB!")

print ("\tVIOLENCE, SPEED, MOMENTUM!")

Open File "allcoach.txt" in Read mode

LOOP line in "allcoach.txt"

append line into sortperf_datalist

call str_to_list_convert With Argument (line), return to sortperf_namelist

append sortperf_namelist[11] into sortperf_blist

end LOOP

sortperf_length = Length of sortperf_blist

call bubble_sort With Argument (sortperf_blist,sortperf_length), return to
sortperf_alist

a = 0

b = 0

while ((Length of sortperf_finallist) != sortperf_length)

if sortperf_alist[a] in sortperf_datalist[b]

append sortperf_datalist[b] into sortperf_finallist

Pop sortperf_datalist, position (b)


```
                a = a + 1
                b = 0
            else:
                b = b + 1
        end while
    x = 0

    while (x != (Length of sortperf_finallist))
        call recordscoach_display With Argument (call str_to_list_convert With
        Argument (sortperf_finallist[x]))
        x = x + 1
    end while
    print("Press any key to return back to Sort Main Menu")
    read x
    call sort_main_menu()
end.
```

22. MODIFY MAIN MENU

```
FUNCTION mod_main_menu()
    begin
        declare modmm_select
        print (60*" - ")
        print ("\tWELCOME TO CHAMPION CLUB!")
        print ("\tVIOLENCE, SPEED, MOMENTUM!")
        print ("\nHello Admin, Please enter what records do you want to modify : ")
        "\n1. Modify Coach Data"
        "\n2. Modify Sport Data"
```

```
"\n3. Modify Sport Schedule Data"

"\n4. Back to Admin Main Menu"

"\n5. Exit")

print("Please enter your choice based on the number : ")

read modmm_select

while(modmm_select >= -100)
    if(modmm_select == 1)
        call mod_coach()
    else if (modmm_select == 2)
        call mod_sport()
    else if (modmm_select == 3)
        call mod_schedule()
    else if (modmm_select == 4)
        call admin_main_menu()
    else if (modmm_select == 5)
        call exit_menu()
    else
        while(modmm_select >5 OR modmm_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read modmm_select
        end while
    end if
end while

end.
```

23. MODIFY COACH

FUNCTION mod_coach()

begin

declare modcoach_search, modcoach_position, modcoach_new,
modcoach_removeindicator,

modcoach_locindicator, modcoach_des, final, modcoach_indicator, x, y,
modcoach_add

declare modcoach_otherlist = [], modcoach_list = [], modcoach_newlist = []

print (60*" -")

print ("\tWELCOME TO CHAMPION CLUB!")

print ("\tVIOLENCE, SPEED, MOMENTUM!")

print("Please enter the Coach ID that you want to modify : ")

read modcoach_search

modcoach_position = 0

Open File "allcoach.txt" in Read Mode

LOOP line in "allcoach.txt"

append line into modcoach_otherlist

if modcoach_search in line

Delete modcoach_otherlist, Position (modcoach_position)

call str_to_list_convert With Argument (line), return to
modcoach_list

modcoach_removeindicator = modcoach_list[7]

call recordscoach_display With Argument (modcoach_list)

print("Is this the right coach data? Enter '1' if correct, or any key to
go back to Modify Main Menu : ")

read modcoach_des

if (modcoach_des == 1)

append modcoach_list[0] into modcoach_newlist

```
print("Enter the coach's name (If the data still the same,  
type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==  
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[1] into modcoach_newlist
```

```
else
```

```
    append modcoach_new into modcoach_newlist
```

```
end if
```

```
print("Enter the coach's Date Joined (dd/mm/yyyy) (If the  
data still the same, type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==  
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[2] into modcoach_newlist
```

```
else
```

```
    append modcoach_new into modcoach_newlist
```

```
end if
```

```
print("Enter the coach's Date of Termination (dd/mm/yyyy)  
(If the data still the same, type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==  
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[3] into modcoach_newlist
```

```
else
```

```
    append modcoach_new into modcoach_newlist
```

end if

```
print("Enter the coach's hourly rate in MYR () (Example :  
if 200 MYR/Hr, then enter '200')(Range of pay is 100-  
500RM per hr) (If the data still the same, type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==  
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[4] into modcoach_newlist
```

```
else
```

```
    while (modcoach_new > 500 OR modcoach_new <  
    100)
```

```
        print("Value is out of range!")
```

```
        print("Enter the coach's hourly rate in MYR  
        () (Example : if 200 MYR/Hr, then enter  
        '200')(Range of pay is 100-500RM per hr)  
        (If the data still the same, type 'same') : ")
```

```
        read modcoach_new
```

```
    end while
```

```
    append (modcoach_new," RM/Hr") into  
    modcoach_newlist
```

```
end if
```

```
print("Enter the coach's phone number (If the data still the  
same, type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==  
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[5] into modcoach_newlist
```

```
else
```

```
        append modcoach_new into modcoach_newlist
    end if
```

```
print("Enter the coach's address (If the data still the same,
type 'same') : ")
```

```
read modcoach_new
```

```
if (modcoach_new == "same" OR modcoach_new ==
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[6] into modcoach_newlist
```

```
else
```

```
    append modcoach_new into modcoach_newlist
```

```
end if
```

```
print("Enter the coach's Location ID (Type 'Help' if the list
of Location IDs is Needed) (If the data still the same, type
'same') : ")
```

```
read modcoach_new
```

```
while (modcoach_new == "help" or modcoach_new ==
"Help" or modcoach_new == "HELP")
```

```
    Open File "help_locationID.txt" in Read Mode
```

```
    print ("help_locationID.txt")
```

```
    Close File "help_locationID.txt"
```

```
    print("Enter the coach's Location ID (Type 'Help' if
the list of Location IDs is Needed) (If the data still
the same, type 'same') : ")
```

```
    read modcoach_new
```

```
end while
```

```
if (modcoach_new == "same" OR modcoach_new ==
"Same" OR modcoach_new == "SAME")
```

```
    append modcoach_list[7] into modcoach_newlist
```

```
        append modcoach_list[8] into modcoach_newlist
        modcoach_locindicator = modcoach_list[7]
    else
        modcoach_indicator = 0
        while (modcoach_indicator == 0)
            if (modcoach_new == "L001")
                modcoach_indicator = 1
                append modcoach_new into
                modcoach_newlist
                append "Surabaya" into
                modcoach_newlist
                modcoach_locindicator = "L001"
            else if (modcoach_new == "L002")
                modcoach_indicator = 1
                append modcoach_new into
                modcoach_newlist
                append "Malang" into
                modcoach_newlist
                modcoach_locindicator = "L002"
            else if (modcoach_new == "L003")
                modcoach_indicator = 1
                append modcoach_new into
                modcoach_newlist
                append "Lampung" into
                modcoach_newlist
                modcoach_locindicator = "L003"
            else
                print("Wrong Input!")
```

```
print("Enter the coach's Location ID
(Type 'Help' if the list of Location
IDs is Needed) (If the data still the
same, type 'same') : ")

read modcoach_new

while (modcoach_new == "help" or
modcoach_new == "Help" or
modcoach_new == "HELP")

    Open File
    "help_locationID.txt" in Read
    Mode

    print ("help_locationID.txt")

    Close File
    "help_locationID.txt"

    print("Enter the coach's
    Location ID (Type 'Help' if
    the list of Location IDs is
    Needed) (If the data still the
    same, type 'same') : ")

    read modcoach_new

end while

end if

end while

end if

print("Enter the coach's Sport ID (Type 'Help' if the list of
Sport IDs is Needed) (If the data still the same, type 'same')
: ")

read modcoach_new

if (modcoach_new == "same" OR modcoach_new ==
"Same" OR modcoach_new == "SAME")

    append modcoach_list[9] into modcoach_newlist
```



```
        append modcoach_list[10] into modcoach_newlist
    else
        append modcoach_new into modcoach_newlist
        call sportname_search With Argument
        (modcoach_new), return to modcoach_new
        append modcoach_new into modcoach_newlist
    end if
```

```
    append modcoach_list[11] into modcoach_newlist
    append modcoach_list[12] into modcoach_newlist
    append modcoach_list[13] into modcoach_newlist
```

```
call recordscoach_display With Argument
(modcoach_newlist)
```

```
print("Please enter '1' to submit the modified the data, or
enter any key to enter a new set of data : ")
```

```
read modcoach_des
```

```
if (modcoach_des == 1)
```

```
    final = (modcoach_newlist[0]+" |
    "+modcoach_newlist[1]+" |
    "+modcoach_newlist[2]+" |
    "+modcoach_newlist[3]+" |
    "+modcoach_newlist[4]+" |
    "+modcoach_newlist[5]+" |
    "+modcoach_newlist[6]+" |
    "+modcoach_newlist[7]+" |
    "+modcoach_newlist[8]+" |
    "+modcoach_newlist[9]+" |
    "+modcoach_newlist[10]+" |
    "+modcoach_newlist[11]+" |
    "+modcoach_newlist[12]+" |
    "+modcoach_newlist[13]+"+"\n")
```

```
                Insert final into modcoach_otherlist, position
                (modcoach_position)

            else

                call mod_coach()

            end if

        else :

            call mod_main_menu()

        end if

    end if

    modcoach_position = modcoach_position + 1
end LOOP

Close File "allcoach.txt"

Open File "allcoach.txt" in Write mode
LOOP x in range(modcoach_position)
    y = (-modcoach_position+x)
    modcoach_add = modcoach_otherlist[y]
    Write modcoach_add into "allcoach.txt"
end LOOP

Close File "allcoach.txt"

modcoach_otherlist = []
modcoach_position = 0

if (modcoach_removeindicator == "L001")

    Open File "coach1surabaya.txt" in Read Mode

    LOOP line in "coach1surabaya.txt"
```

```
        append line into modcoach_otherlist
    if modcoach_search in line
        Delete modcoach_otherlist, Position (modcoach_position)
        modcoach_position = modcoach_position - 1
    end if
    modcoach_position = modcoach_position + 1
end LOOP
Close File "coach1surabaya.txt"

Open File "coach1surabaya.txt" in Write mode
LOOP x in range(modcoach_position)
    y = (-modcoach_position+x)
    modcoach_add = modcoach_otherlist[y]
    Write modcoach_add into "coach1surabaya.txt"
end LOOP
Close File "coach1surabaya.txt"

else if (modcoach_removeindicator == "L002")
    Open File "coach2malang.txt" in Read Mode
    LOOP line in "coach2malang.txt"
        append line into modcoach_otherlist
    if modcoach_search in line
        Delete modcoach_otherlist, Position (modcoach_position)
        modcoach_position = modcoach_position - 1
    end if
    modcoach_position = modcoach_position + 1
end LOOP
```

Close File "coach2malang.txt"

Open File "coach2malang.txt" in Write mode

LOOP x in range(modcoach_position)

 y = (-modcoach_position+x)

 modcoach_add = modcoach_otherlist[y]

 Write modcoach_add into "coach2malang.txt"

end LOOP

Close File "coach2malang.txt"

else if (modcoach_removeindicator == "L003")

 Open File "coach3lampung.txt" in Read Mode

 LOOP line in "coach3lampung.txt"

 append line into modcoach_otherlist

 if modcoach_search in line

 Delete modcoach_otherlist, Position (modcoach_position)

 modcoach_position = modcoach_position - 1

 end if

 modcoach_position = modcoach_position + 1

 end LOOP

 Close File "coach3lampung.txt"

Open File "coach3lampung.txt" in Write mode

LOOP x in range(modcoach_position)

 y = (-modcoach_position+x)

 modcoach_add = modcoach_otherlist[y]

 Write modcoach_add into "coach3lampung.txt"

```
        end LOOP

        Close File "coach3lampung.txt"

    end if

    print("Done Deleting the data from old file, now printing the data into the new
    file")

    if (modcoach_locindicator == "L001")

        Open File "coach1surabaya.txt" in Append mode
        Append Final into "coach1surabaya.txt"
        Close File "coach1surabaya.txt"

    else if (modcoach_locindicator == "L002")

        Open File "coach2malang.txt" in Append mode
        Append Final into "coach2malang.txt"
        Close File "coach2malang.txt"

    else if (modcoach_locindicator == "L003")

        Open File "coach3lampung.txt" in Append mode
        Append Final into "coach3lampung.txt"
        Close File "coach3lampung.txt"

    end if

    print("Done, Press any key to return to go back to Modify Main Menu")

    read modcoach_des

    call mod_main_menu()

end.
```

24. MODIFY SPORT

FUNCTION mod_sport()

begin

declare modsport_search, modsport_position, modsport_new,
modsport_removeindicator, modsport_locindicator, modsport_des, final,
modsport_indicator, x, y, modsport_add

declare modsport_otherlist = [], modsport_list = [], modsport_newlist = []

print (60*" -")

print ("\tWELCOME TO CHAMPION CLUB!")

print ("\tVIOLENCE, SPEED, MOMENTUM!")

print("Please enter the Sport ID that you want to modify : ")

read modsport_search

modsport_position = 0

Open File "allsport.txt" in Read Mode

LOOP line in "allsport.txt"

append line into modsport_otherlist

if modsport_search in line

Delete modsport_otherlist, Position (modsport_position)

call str_to_list_convert With Argument (line), return to
modsport_list

modsport_removeindicator = modsport_list[2]

call recordssport_display With Argument (modsport_list)

print("Is this the right sport data? Enter '1' if correct, or any key to
go back to Modify Main Menu : ")

read modsport_des

if (modsport_des == 1)

append modsport_list[0] into modsport_newlist

```
print("Enter the sport's name (If the data still the same, type  
'same') : ")
```

```
read modsport_new
```

```
if (modsport_new == "same" or modsport_new == "Same"  
or modsport_new == "SAME")
```

```
    append modsport_list[1] into modsport_newlist
```

```
else
```

```
    append modsport_new into modsport_newlist
```

```
end if
```

```
print("Enter the sport's Location ID (Type 'Help' if the list  
of Location IDs is Needed) (If the data still the same, type  
'same') : ")
```

```
read modsport_new
```

```
while (modsport_new == "help" or modsport_new ==  
"Help" or modsport_new == "HELP")
```

```
    Open File "help_locationID.txt" in Read Mode
```

```
    print ("help_locationID.txt")
```

```
    Close File "help_locationID.txt"
```

```
    print("Enter the sport's Location ID (Type 'Help' if  
the list of Location IDs is Needed) (If the data still  
the same, type 'same') : ")
```

```
    read modsport_new
```

```
end while
```

```
if (modsport_new == "same" OR modsport_new ==  
"Same" OR modsport_new == "SAME")
```

```
    append modsport_list[2] into modsport_newlist
```

```
    append modsport_list[3] into modsport_newlist
```

```
    modsport_locindicator = modsport_list[2]
```

```
else

    modsport_indicator = 0

    while (modsport_indicator == 0)

        if (modsport_new == "L001")

            modsport_indicator = 1

            append modsport_new into
            modsport_newlist

            append "Surabaya" into
            modsport_newlist

            modsport_locindicator = "L001"

        else if (modsport_new == "L002")

            modsport_indicator = 1

            append modsport_new into
            modsport_newlist

            append "Malang" into
            modsport_newlist

            modsport_locindicator = "L002"

        else if (modsport_new == "L003")

            modsport_indicator = 1

            append modsport_new into
            modsport_newlist

            append "Lampung" into
            modsport_newlist

            modsport_locindicator = "L003"

    else

        print("Wrong Input!")

        print("Enter the sport's Location ID
        (Type 'Help' if the list of Location
        IDs is Needed) (If the data still the
        same, type 'same') : ")
```



```
        read modsport_new

        while (modsport_new == "help" OR
        modsport_new == "Help" OR
        modsport_new == "HELP")

            Open File
            "help_locationID.txt" in Read
            Mode

            print ("help_locationID.txt")

            Close File
            "help_locationID.txt"

            print("Enter the sport's
            Location ID (Type 'Help' if
            the list of Location IDs is
            Needed) (If the data still the
            same, type 'same') : ")

            read modsport_new

        end while

    end if

end while

end if

call recordssport_display With Argument
(modsport_newlist)

print("Please enter '1' to submit the modified the data, or
enter any key to enter a new set of data : ")

read modsport_des

if (modsport_des == 1)

    final = (modsport_newlist[0]+" |
    "+modsport_newlist[1]+" |
    "+modsport_newlist[2]+" |
    "+modsport_newlist[3]+"\\n")
```

```
                Insert final into modsport_otherlist, position
                (modsport_position)

            else

                call mod_sport()

            end if

        else :

            mod_main_menu()

        end if

    end if

    modsport_position = modsport_position + 1
end LOOP

Close File "allsport.txt"

Open File "allsport.txt" in Write mode
LOOP x in range(modsport_position)
    y = (-modsport_position+x)
    modsport_add = modsport_otherlist[y]
    Write modsport_add into "allsport.txt"
end LOOP

Close File "allsport.txt"

modsport_otherlist = []
modsport_position = 0

if (modsport_removeindicator == "L001")

    Open File "sport1surabaya.txt" in Read Mode

    LOOP line in "sport1surabaya.txt"
```

```
        append line into modsport_otherlist
    if modsport_search in line
        Delete modsport_otherlist, Position (modsport_position)
        modsport_position = modsport_position - 1
    end if
    modsport_position = modsport_position + 1
end LOOP
Close File "sport1surabaya.txt"

Open File "sport1surabaya.txt" in Write mode
LOOP x in range(modsport_position)
    y = (-modsport_position+x)
    modsport_add = modsport_otherlist[y]
    Write modsport_add into "sport1surabaya.txt"
end LOOP
Close File "sport1surabaya.txt"

else if (modsport_removeindicator == "L002")
    Open File "sport2malang.txt" in Read Mode
    LOOP line in "sport2malang.txt"
        append line into modsport_otherlist
    if modsport_search in line
        Delete modsport_otherlist, Position (modsport_position)
        modsport_position = modsport_position - 1
    end if
    modsport_position = modsport_position + 1
end LOOP
```

Close File "sport2malang.txt"

Open File "sport2malang.txt" in Write mode

LOOP x in range(modsport_position)

y = (-modsport_position+x)

modsport_add = modsport_otherlist[y]

Write modsport_add into "sport2malang.txt"

end LOOP

Close File "sport2malang.txt"

else if (modsport_removeindicator == "L003")

Open File "sport3lampung.txt" in Read Mode

LOOP line in "sport3lampung.txt"

append line into modsport_otherlist

if modsport_search in line

Delete modsport_otherlist, Position (modsport_position)

modsport_position = modsport_position - 1

end if

modsport_position = modsport_position + 1

end LOOP

Close File "sport3lampung.txt"

Open File "sport3lampung.txt" in Write mode

LOOP x in range(modsport_position)

y = (-modsport_position+x)

modsport_add = modsport_otherlist[y]

Write modsport_add into "sport3lampung.txt"

```
        end LOOP

        Close File "sport3lampung.txt"

    end if

    print("Done Deleting the data from old file, now printing the data into the new
    file")

    if (modsport_locindicator == "L001")
        Open File "sport1surabaya.txt" in Append mode
        Append Final into "sport1surabaya.txt"
        Close File "sport1surabaya.txt"

    else if (modsport_locindicator == "L002")
        Open File "sport2malang.txt" in Append mode
        Append Final into "sport2malang.txt"
        Close File "sport2malang.txt"

    else if (modsport_locindicator == "L003")
        Open File "sport3lampung.txt" in Append mode
        Append Final into "sport3lampung.txt"
        Close File "sport3lampung.txt"
    end if

    print("Done, Press any key to return to go back to Modify Main Menu")
    read modsport_des
    call mod_main_menu()

end.
```

25. MODIFY SCHEDULE

FUNCTION mod_schedule()

begin

declare modschedule_search, modschedule_position, modschedule_new,
modschedule_removeindicator, modschedule_locindicator, modschedule_des,
final, modschedule_indicator, x, y, modschedule_add

declare modschedule_otherlist = [], modschedule_list = [], modschedule_newlist
= []

print (60*"~")

print ("\tWELCOME TO CHAMPION CLUB!")

print ("\tVIOLENCE, SPEED, MOMENTUM!")

print("Please enter the Schedule ID that you want to modify : ")

read modschedule_search

modschedule_position = 0

Open File "allsportschedule.txt" in Read Mode

LOOP line in "allsportschedule.txt"

append line into modschedule_otherlist

if modschedule_search in line

Delete modschedule_otherlist, Position (modschedule_position)

call str_to_list_convert With Argument (line), return to
modschedule_list

modschedule_removeindicator = modschedule_list[1]

call recordsschedule_display With Argument (modschedule_list)

print("Is this the right coach data? Enter '1' if correct, or any key to
go back to Modify Main Menu : ")

read modschedule_des

if (modschedule_des == 1)

append modschedule_list[0] into modschedule_newlist

```
print("Enter the schedule's Location ID (Type 'Help' if the
list of Location IDs is Needed) (If the data still the same,
type 'same') : ")

read modschedule_new

while (modschedule_new == "help" OR modschedule_new
== "HELP" OR modschedule_new == "Help")

    Open File "help_locationID.txt" in Read Mode
    print ("help_locationID.txt")
    Close File "help_locationID.txt"

    print("Enter the schedule's Location ID (Type 'Help'
    if the list of Location IDs is Needed) (If the data
    still the same, type 'same') : ")

    read modschedule_new

end while

if (modschedule_new == "same" OR modschedule_new ==
"Same" OR modschedule_new == "SAME")

    append modschedule_list[1] into
    modschedule_newlist

    append modschedule_list[2] into
    modschedule_newlist

    modschedule_locindicator = modschedule_list[1]

else

    modschedule_indicator = 0

    while (modschedule_indicator == 0)

        if (modschedule_new == "L001")

            modschedule_indicator = 1

            append modschedule_new into
            modschedule_newlist
```

```
        append "Surabaya" into
        modschedule_newlist

        modschedule_locindicator = "L001"

    else if (modschedule_new == "L002")

        modschedule_indicator = 1

        append modschedule_new into
        modschedule_newlist

        append "Malang" into
        modschedule_newlist

        modschedule_locindicator = "L002"

    else if (modschedule_new == "L003")

        modschedule_indicator = 1

        append modschedule_new into
        modschedule_newlist

        append "Lampung" into
        modschedule_newlist

        modschedule_locindicator = "L003"

    else

        print("Wrong Input!")

        print("Enter the schedule's Location
        ID (Type 'Help' if the list of Location
        IDs is Needed) (If the data still the
        same, type 'same') : ")

        read modschedule_new

        while (modschedule_new == "help"
        or modschedule_new == "Help" or
        modschedule_new == "HELP")

            Open File
            "help_locationID.txt" in Read
            Mode

            print ("help_locationID.txt")
```

```
        Close File
        "help_locationID.txt"

        print("Enter the schedule's
        Location ID (Type 'Help' if
        the list of Location IDs is
        Needed) (If the data still the
        same, type 'same') : ")

        read modschedule_new

    end while

end if

end while

end if

call help_sport With Argument (modschedule_new)

print("Enter the Sport's ID of the lesson(If the data still the
same, type 'same') : ")

read modschedule_new

if (modschedule_new == "same" OR modschedule_new ==
"Same" OR modschedule_new == "SAME")

    append modschedule_list[3] into
    modschedule_newlist

else

    append modschedule_new into
    modschedule_newlist

end if

call sportname_search With Argument
(modschedule_new), return to modschedule_new

append modschedule_new into modschedule_newlist
```

```
call help_coach With Argument
(modschedule_newlist[1],modschedule_newlist[3])

print("Enter the Coach's ID of the lesson : ")

read modschedule_new

if (modschedule_new == "same" OR modschedule_new ==
"Same" OR modschedule_new == "SAME")

    append modschedule_list[5] into
    modschedule_newlist

else

    append modschedule_new into
    modschedule_newlist

end if


call coachname_search With Argument
(modschedule_new), return to modschedule_new

append modschedule_new into modschedule_newlist


print("Enter the lesson day in number (Monday is 1) (Type
'help' if the number list is needed) : ")

read modschedule_new

while (modschedule_new == "help" OR modschedule_new
== "HELP" OR modschedule_new == "Help")

    print ("\nThe Day Number List : \nMonday\t\t=
1\nTuesday\t\t= 2\nWednesday\t= 3\nThursday\t=
4\nFriday\t\t= 5\nSaturday\t= 6\nSunday\t\t= 7")

    print("Enter the lesson day in number (Monday is 1)
(Type 'help' if the number list is needed) : ")

    read modschedule_new

end while
```

```
while (modschedule_new>7 OR modschedule_new<1)

    print("Wrong Input!")

    print("Enter the lesson day in number (Monday is 1)
    (Type 'help' if the number list is needed) : ")

    read modschedule_new

    while (modschedule_new == "help" OR
    modschedule_new == "HELP" OR
    modschedule_new == "Help")

        print ("\nThe Day Number List :
        \nMonday\t\t= 1\nTuesday\t\t=
        2\nWednesday\t= 3\nThursday\t\t=
        4\nFriday\t\t= 5\nSaturday\t= 6\nSunday\t\t=
        7")

        print("Enter the lesson day in number
        (Monday is 1) (Type 'help' if the number list
        is needed) : ")

        read modschedule_new

    end while

end while

if(modschedule_new == 1)

    append "Monday" into modschedule_newlist

else if(modschedule_new == 2)

    append "Tuesday" into modschedule_newlist

else if(modschedule_new == 3)

    append "Wednesday" into modschedule_newlist

else if(modschedule_new == 4)

    append "Thursday" into modschedule_newlist

else if(modschedule_new == 5)

    append "Friday" into modschedule_newlist
```

```
else if(modschedule_new == 6)
    append "Saturday" into modschedule_newlist
else if(modschedule_new == 7)
    append "Sunday" into modschedule_newlist
end if

print("Enter the lesson starting time in thousand (05.00 = 5
am, 17.00 = 5 pm)(Type 'help' if assistance is needed) : ")

read modschedule_new

while (modschedule_new == "help" OR modschedule_new
== "HELP" OR modschedule_new == "Help")
    Open File "help_time.txt" in Read Mode
    print("help_time.txt")
    Close File "help_time.txt"
close while

print("Enter the lesson starting time in thousand (05.00 = 5
am, 17.00 = 5 pm)(Type 'help' if assistance is needed) : ")

read modschedule_new

end while

while (modschedule_new<00.00 OR
modschedule_new>23.59)
    print("Wrong Input!")
    print("Enter the lesson starting time in thousand
(05.00 = 5 am, 17.00 = 5 pm)(Type 'help' if
assistance is needed) : ")
    read modschedule_new
    while (modschedule_new == "help" OR
modschedule_new == "HELP" OR
modschedule_new == "Help")
```

```
        Open File "help_time.txt" in Read Mode
        print("help_time.txt")
        Close File "help_time.txt"

        print("Enter the lesson starting time in
        thousand (05.00 = 5 am, 17.00 = 5
        pm)(Type 'help' if assistance is needed) : ")

        read modschedule_new

    end while

    modschedule_temp = modschedule_new
end while

if (modschedule_new >= 00.00 AND
    modschedule_new <= 11.59)

    append (modschedule_temp, " AM") into
    modschedule.newlist

else:

    append (modschedule_temp, " PM") into
    modschedule.newlist

end if

print("Enter the lesson time duration in minutes (1 Hour =
60 Minutes)(Maximum Duration is 180 Minutes/3 Hours) :
")

read modschedule_new

while (modschedule_new < 0 or modschedule_new > 180)

    print("Wrong Input!")

    print("Enter the lesson time duration in minutes (1
    Hour = 60 Minutes)(Maximum Duration is 180
    Minutes/3 Hours) : ")

    read modschedule_new
```

```
end while

append (modschedule_new+" Minutes") into
modschedule_newlist

call recordsschedule_display With Argument
(modschedule_newlist)

print("Please enter '1' to submit the modified the data, or
enter any key to enter a new set of data : ")

read modschedule_des

if (modschedule_des == 1)

    final = (modschedule_newlist[0]+" |
    "+modschedule_newlist[1]+" |
    "+modschedule_newlist[2]+" |
    "+modschedule_newlist[3]+" |
    "+modschedule_newlist[4]+" |
    "+modschedule_newlist[5]+" |
    "+modschedule_newlist[6]+" |
    "+modschedule_newlist[7]+" |
    "+modschedule_newlist[8]+" |
    "+modschedule_newlist[9]+"\\n")

    Insert final into modschedule_otherlist, position
    (modschedule_position)

else

    call mod_schedule()

end if

else :

    mod_main_menu()

end if

end if

modschedule_position = modschedule_position + 1

end LOOP
```

Close File "allsportschedule.txt"

Open File "allsportschedule.txt" in Write mode

LOOP x in range(modschedule_position)

 y = (-modschedule_position+x)

 modschedule_add = modschedule_otherlist[y]

 Write modschedule_add into "allsportschedule.txt"

end LOOP

Close File "allsportschedule.txt"

modschedule_otherlist = []

modschedule_position = 0

if (modschedule_removeindicator == "L001")

 Open File "sportschedule1surabaya.txt" in Read Mode

 LOOP line in "sportschedule1surabaya.txt"

 append line into modschedule_otherlist

 if modschedule_search in line

 Delete modschedule_otherlist, Position
 (modschedule_position)

 modschedule_position = modschedule_position - 1

 end if

 modschedule_position = modschedule_position + 1

 end LOOP

 Close File "sportschedule1surabaya.txt"

 Open File "sportschedule1surabaya.txt" in Write mode

```
LOOP x in range(modschedule_position)
    y = (-modschedule_position+x)
    modschedule_add = modschedule_otherlist[y]
    Write modschedule_add into "sportschedule1surabaya.txt"
end LOOP
Close File "sportschedule1surabaya.txt"
```

```
else if (modschedule_removeindicator == "L002")
    Open File "sportschedule2malang.txt" in Read Mode
    LOOP line in "sportschedule2malang.txt"
        append line into modschedule_otherlist
        if modschedule_search in line
            Delete modschedule_otherlist, Position
            (modschedule_position)
            modschedule_position = modschedule_position - 1
        end if
        modschedule_position = modschedule_position + 1
    end LOOP
    Close File "sportschedule2malang.txt"
```

```
Open File "sportschedule2malang.txt" in Write mode
LOOP x in range(modschedule_position)
    y = (-modschedule_position+x)
    modschedule_add = modschedule_otherlist[y]
    Write modschedule_add into "sportschedule2malang.txt"
end LOOP
Close File "sportschedule2malang.txt"
```



```
else if (modschedule_removeindicator == "L003")
    Open File "sportschedule3lampung.txt" in Read Mode
    LOOP line in "sportschedule3lampung.txt"
        append line into modschedule_otherlist
        if modschedule_search in line
            Delete modschedule_otherlist, Position
            (modschedule_position)
            modschedule_position = modschedule_position - 1
        end if
        modschedule_position = modschedule_position + 1
    end LOOP
    Close File "sportschedule3lampung.txt"

    Open File "sportschedule3lampung.txt" in Write mode
    LOOP x in range(modschedule_position)
        y = (-modschedule_position+x)
        modschedule_add = modschedule_otherlist[y]
        Write modschedule_add into "sportschedule3lampung.txt"
    end LOOP
    Close File "sportschedule3lampung.txt"
end if

print("Done Deleting the data from old file, now printing the data into the new
file")

if (modschedule_locindicator == "L001")
    Open File "sportschedule1surabaya.txt" in Append mode
```

Append Final into "sportschedule1surabaya.txt"

Close File "sportschedule1surabaya.txt"

else if (modschedule_locindicator == "L002")

Open File "sportschedule2malang.txt" in Append mode

Append Final into "sportschedule2malang.txt"

Close File "sportschedule2malang.txt"

else if (modschedule_locindicator == "L003")

Open File "sportschedule3lampung.txt" in Append mode

Append Final into "sportschedule3lampung.txt"

Close File "sportschedule3lampung.txt"

end if

print("Done, Press any key to return to go back to Modify Main Menu")

read modschedule_des

call mod_main_menu()

end.

Functionalities of Guests

26. GUEST MAIN MENU

FUNCTION guest_main_menu()

begin

declare guestmm_select

print (60*" - ")

print ("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

```
print("\nHello Guest, Please enter what do you want to access : ")

"\n1. View details of the sports available"
"\n2. View details of the sport schedules"
"\n3. Register to become a new student"
"\n4. Go back to Role selection"
"\n5. Exit)

print("Please enter your choice based on the number : ")

read guestmm_select

while(guestmm_select >= -100)
    if(guestmm_select == 1)
        call guest_display_sport()
    else if (guestmm_select == 2)
        call guest_display_schedule()
    else if (guestmm_select == 3)
        call guest_register()
    else if (guestmm_select == 4)
        call role_selection()
    else if (guestmm_select == 5)
        call exit_menu()
    else
        while(guestmm_select >5 OR guestmm_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read guestmm_select
        end while
    end if
```

```
        end while  
    end.
```

27. GUEST DISPLAY RECORDS OF SPORT

```
FUNCTION guest_display_sport()  
    begin  
        declare recordssport_select  
        declare recordssport_list = []  
        print(60*"~")  
        print("\tWELCOME TO CHAMPION CLUB!")  
        print("\tVIOLENCE, SPEED, MOMENTUM!")  
        print("\nHello Guest, Please enter what records do you want to display : "  
            "\n1. Sport in all Locations"  
            "\n2. Sport in Surabaya"  
            "\n3. Sport in Malang"  
            "\n4. Sport in Lampung"  
            "\n5. Back to Guest Main Menu"  
            "\n6. Exit")  
        print("Please enter your choice based on the number : ")  
        read recordssport_select  
  
        while(recordssport_select >= 0)  
            if(recordssport_select == 1)  
                Open File "allsport.txt" in Read Mode  
                LOOP line in "allsport.txt"  
                    call str_to_list_convert with Argument (line), return to  
                    recordssport_list
```

```
        call recordssport_display with Argument (recordssport_list)
    end LOOP
    Close File "allsport.txt"
    print("Press anything to go back to Guest Main Menu")
    read recordssport_select
    call guest_main_menu()
else if (recordssport_select == 2)
    Open File "sport1surabaya.txt" in Read Mode
    LOOP line in "sport1surabaya.txt"
        call str_to_list_convert with Argument (line), return to
        recordssport_list
        call recordssport_display with Argument (recordssport_list)
    end LOOP
    Close File "sport1surabaya.txt"
    print("Press anything to go back to Guest Main Menu")
    read recordssport_select
    call guest_main_menu()
else if (recordssport_select == 3)
    Open File "sport2malang.txt" in Read Mode
    LOOP line in "sport2malang.txt"
        call str_to_list_convert with Argument (line), return to
        recordssport_list
        call recordssport_display with Argument (recordssport_list)
    end LOOP
    Close File "sport2malang.txt"
    print("Press anything to go back to Guest Main Menu")
    read recordssport_select
    call guest_main_menu()
```

```
else if (recordssport_select == 4)
    Open File "sport3lampung.txt" in Read Mode
    LOOP line in "sport3lampung.txt"
        call str_to_list_convert with Argument (line), return to
        recordssport_list
        call recordssport_display with Argument (recordssport_list)
    end LOOP
    Close File "sport3lampung.txt"
    print("Press anything to go back to Guest Main Menu")
    read recordssport_select
    call guest_main_menu()
else if (recordssport_select == 5)
    call guest_main_menu()
else if (recordssport_select == 6)
    exit_menu()
else
    while(recordssport_select >6 OR recordssport_select < 1)
        print("\nInvalid number!")
        print("Please enter your choice based on the number : ")
        read recordssport_select
    end while
end if
end while
end.
```

28. GUEST DISPLAY RECORDS OF SCHEDULE

```
FUNCTION guest_display_schedule()
    begin
        declare recordsschedule_select
        declare recordsschedule_list = []
        print(60*" -")
        print("\tWELCOME TO CHAMPION CLUB!")
        print("\tVIOLENCE, SPEED, MOMENTUM!")
        print("\nHello Guest, Please enter what records do you want to display : ")
        "\n1. Sport Schedule in all Locations"
        "\n2. Sport Schedule in Surabaya"
        "\n3. Sport Schedule in Malang"
        "\n4. Sport Schedule in Lampung"
        "\n5. Back to Guest Main Menu"
        "\n6. Exit"
        print("Please enter your choice based on the number : ")
        read recordsschedule_select

        while(recordsschedule_select >= 0)
            if(recordsschedule_select == 1)
                Open File "allsportschedule.txt" in Read Mode
                LOOP line in "allsportschedule.txt"
                    call str_to_list_convert with Argument (line), return to
                    recordsschedule_list

                    call recordsschedule_display with Argument
                    (recordsschedule_list)
                end LOOP
            Close File "allsportschedule.txt"
```

```
        print("Press anything to go back to Guest Main Menu")
        read recordsschedule_select
        call guest_main_menu()
    else if (recordsschedule_select == 2)
        Open File "sportschedule1surabaya.txt" in Read Mode
        LOOP line in "sportschedule1surabaya.txt"
            call str_to_list_convert with Argument (line), return to
            recordsschedule_list
            call recordsschedule_display with Argument
            (recordsschedule_list)
        end LOOP
        Close File "sportschedule1surabaya.txt"
        print("Press anything to go back to Guest Main Menu")
        read recordsschedule_select
        call guest_main_menu()
    else if (recordsschedule_select == 3)
        Open File "sportschedule2malang.txt" in Read Mode
        LOOP line in "sportschedule2malang.txt"
            call str_to_list_convert with Argument (line), return to
            recordsschedule_list
            call recordsschedule_display with Argument
            (recordsschedule_list)
        end LOOP
        Close File "sportschedule2malang.txt"
        print("Press anything to go back to Guest Main Menu")
        read recordsschedule_select
        call guest_main_menu()
    else if (recordsschedule_select == 4)
```


Open File "sportschedule3lampung.txt" in Read Mode

LOOP line in "sportschedule3lampung.txt"

call str_to_list_convert with Argument (line), return to
recordsschedule_list

call recordsschedule_display with Argument
(recordsschedule_list)

end LOOP

Close File "sportschedule3lampung.txt"

print("Press anything to go back to Guest Main Menu")

read recordsschedule_select

call guest_main_menu()

else if (recordsschedule_select == 5)

call guest_main_menu()

else if (recordsschedule_select == 6)

exit_menu()

else

while(recordsschedule_select >6 OR recordsschedule_select < 1)

print("\nInvalid number!")

print("Please enter your choice based on the number : ")

read recordsschedule_select

end while

end if

end while

end.

29. GUEST REGISTER

FUNCTION guest_register()

begin

declare guestreg_IDcheck, guestreg_ID, guestreg_username, guestreg_pass,
guestreg_name, guestreg_age, guestreg_address, guestreg_phone, guestreg_LID,
guestreg_indicator, guestreg_LIDn, guestreg_SID, guestreg_SIDn, guestreg_des,
guestreg_checklist

declare guestreg_list = []

print (60*"~")

print ("\tWELCOME TO CHAMPION CLUB!")

print ("\tVIOLENCE, SPEED, MOMENTUM!")

print("Hello new User!")

guestreg_IDcheck = ID

call id_auto with Argument (guestreg_IDcheck), return to guestreg_ID

print("Your new ID is : ",guestreg_ID)

append guestreg_ID into guestreg_list

print("Enter your Username : ")

read guestreg_username

Open File "allregstudent.txt" in Read Mode

LOOP line in "allregstudent.txt"

call str_to_list_convert with Argument (line), return to guestreg_checklist

while (guestreg_username == guestreg_checklist[1])

print("Sorry, the username has been taken. Please try again!")

read guestreg_username

end while

end LOOP

```
append guestreg_username into guestreg_list

print("Enter your Password (Minimum 8 character long) : ")
read guestreg_pass
    while ((Length of guestreg_pass) < 8)
        print("The Password is too short! Please enter a new one! ")
        print("Enter your Password (Minimum 8 character long) : ")
        read guestreg_pass
    end while
append guestreg_pass into guestreg_list

print("Enter your Name : ")
read guestreg_name
append guestreg_name into guestreg_list

print("Enter your Age : ")
read guestreg_age
append guestreg_age into guestreg_list

print("Enter your Address : ")
read guestreg_address
append guestreg_address into guestreg_list

print("Enter your Phone Number : ")
read guestreg_phone
append guestreg_phone into guestreg_list
```

```
print("Enter your Location ID (Type 'help' if the Location ID list is needed) : ")
read guestreg_LID

while (guestreg_LID == "help" or guestreg_LID == "HELP" or guestreg_LID ==
"Help")

    Open File "help_locationID.txt" in Read mode
    print("help_locationID.txt")
    Close File "help_locationID.txt"

    print("Enter your Location ID (Type 'help' if the Location ID list is
needed) : ")

    read guestreg_LID

end while

guestreg_indicator = 0
while (guestreg_indicator == 0)
    if (guestreg_LID == "L001")
        guestreg_indicator = 1
        append guestreg_LID into guestreg_list
        append "Surabaya" into guestreg_list
    else if (guestreg_LID == "L002")
        guestreg_indicator = 1
        append guestreg_LID into guestreg_list
        append "Malang" into guestreg_list
    else if (guestreg_LID == "L003")
        guestreg_indicator = 1
        append guestreg_LID into guestreg_list
        append "Lampung" into guestreg_list
    else
        print("Wrong Input!")
```

```
        print("Enter your Location ID (Type 'help' if the Location ID list is
needed) : ")

        read guestreg_LID

        while (guestreg_LID == "help" or guestreg_LID == "HELP" or
guestreg_LID == "Help")

            Open File "help_locationID.txt" in Read mode

            print("help_locationID.txt")

            Close File "help_locationID.txt"

            print("Enter your Location ID (Type 'help' if the Location
ID list is needed) : ")

            read guestreg_LID

        end while

    end if

end while

guestreg_LIDn = guestreg_list[8]

call help_sport With Argument (guestreg_LID)

print("Enter your Sport ID : ")

read guestreg_SID

append guestreg_SID into guestreg_list

call sportname_search With Argument (guestreg_SID), return to guestreg_SIDn

append guestreg_SIDn into guestreg_list

call recordsreg_display With Argument (guestreg_list)

guestreg_final = (guestreg_ID+" | "+guestreg_username+" | "+guestreg_pass+" |
"+guestreg_name+" | "+guestreg_age+" | "+guestreg_address+" |
```

```
" + guestreg_phone + " | " + guestreg_LID + " | " + guestreg_LIDn + " |  
" + guestreg_SID + " | " + guestreg_SIDn + "\n")  
  
print("Please enter '1' to enter the data into the database, or enter any key to quit  
back to Guest Main Menu : ")  
  
read guestreg_des  
  
if (guestreg_des == 1)  
    Open File "allregstudent.txt" in Append mode  
    Append guestreg_final into "allregstudent.txt"  
    Close File "allregstudent.txt"  
  
    if (guestreg_LID == L001)  
        Open File "regstudent1surabaya.txt" in Append mode  
        Append guestreg_final into "regstudent1surabaya.txt"  
        Close File "regstudent1surabaya.txt"  
  
    else if (guestreg_LID == L002)  
        Open File "regstudent2malang.txt" in Append mode  
        Append guestreg_final into "regstudent2malang.txt"  
        Close File "regstudent2malang.txt"  
  
    else if (guestreg_LID == L003)  
        Open File "regstudent3lampung.txt" in Append mode  
        Append guestreg_final into "regstudent3lampung.txt"  
        Close File "regstudent3lampung.txt"  
  
    print("Save Successful! Now you can try login!")  
  
    "\nPress anything to go back to Guest Main Menu")  
  
    read guestreg_des  
    guest_main_menu  
  
else  
  
    print("OK, press anything to go back to Guest Main Menu")  
  
    read guestreg_des
```

```
        guest_main_menu
    end if
end
```

Functionalities of Students

30. STUDENT LOGIN

FUNCTION reg_login()

```
begin
    declare reglogin_username, reglogin_pass, reglogin_des
    declare reglogin_list = []
    print (60*" - ")
    print ("\tWELCOME TO CHAMPION CLUB!")
    print ("\tVIOLENCE, SPEED, MOMENTUM!")
    print ("\nHello Student. Please enter your identification : ")
    Open File "allregstudent.txt" in Read Mode
    print("Username : ")
    read reglogin_username
    print("Password : ")
    read reglogin_pass

    LOOP line in "allregstudent.txt"

        call str_to_list_convert With Argument (line), return to reglogin_list
        if(reglogin_username == reglogin_list[1] AND reglogin_pass ==
            reglogin_list[2])

            print("Login Successful!")

            call reg_main_menu With Argument
            (reglogin_list[0],reglogin_list[9])

        end if
    end if
end
```

```
        else

            print("Username or Password is wrong! Enter '1' to try again, or enter any
            other key to go back to role selection menu : ")

            read reglogin_des

            if (reglogin_des == 1)

                reg_login()

            else

                role_selection()

            end if

        end LOOP

        Close File "allregstudent.txt"

    end.
```

31. STUDENT MAIN MENU

FUNCTION reg_main_menu(studentid,studentsportid)

```
    begin

        declare regmm_select

        print(60*" - ")

        print("\tWELCOME TO CHAMPION CLUB!")

        print("\tVIOLENCE, SPEED, MOMENTUM!")

        print("\nHello Student, Please enter what records do you want to access : ")

        "\n1. Add Records"

        "\n2. Display All Records"

        "\n3. Search Specific Records"

        "\n4. Sort and Display Records"

        "\n5. Modify Records"

        "\n6. Log Out"
```



```
"\n7. Exit")

print("Please enter your choice based on the number : ")

read regmm_select

while(regmm_select >= -100)
    if(regmm_select == 1)
        call reg_display_coach With Argument (studentid,studentsportid)
    else if (regmm_select == 2)
        call reg_display_selfrecord With Argument
        (studentid,studentsportid)
    else if (regmm_select == 3)
        call reg_display_schedule With Argument
        (studentid,studentsportid)
    else if (regmm_select == 4)
        call mod_selfrecord With Argument (studentid,studentsportid)
    else if (regmm_select == 5)
        call reg_feedback With Argument (studentid,studentsportid)
    else if (regmm_select == 6)
        call reg_login()
    else if (regmm_select == 7)
        call exit_menu()
    else
        while(regmm_select >7 OR regmm_select < 1)
            print("\nInvalid number!")
            print("Please enter your choice based on the number : ")
            read regmm_select
        end while
    end if
end while
```

```
        end while  
    end.
```

32. STUDENT DISPLAY RECORDS OF COACH

FUNCTION reg_display_coach(studentid,studentsportid)

```
begin  
    declare regdisplayc_sportn, regdisplayc_des, remove  
    declare regdisplayc_list = []  
    print (60*"-")  
    print ("\tWELCOME TO CHAMPION CLUB!")  
    print ("\tVIOLENCE, SPEED, MOMENTUM!")  
    Open File "allcoach.txt" in Read mode  
    call sportname_search With Argument (studentsportid), return to  
    regdisplayc_sportn  
    print("This is the Available Coach for ",regdisplayc_sportn," : ")  
    LOOP line in "allcoach.txt"  
    if (studentsportid in line)  
        call str_to_list_convert With Argument (line), return to regdisplayc_list  
        remove = Pop regdisplayc_list, Position (11)  
        In Remove, replace ("R") with ("")  
        Insert remove into regdisplayc_list, position (11)  
        print("\n\nCOACH ID\t\t: ",regdisplayc_list[0])  
        print("COACH NAME\t\t: ",regdisplayc_list[1])  
        print("LOCATION NAME\t\t: ",regdisplayc_list[8])  
        print("SPORT NAME\t\t: ",regdisplayc_list[10])  
        print("RATING\t\t\t: ",regdisplayc_list[11])  
        print("NUMBER OF RATING\t: ",regdisplayc_list[12])
```

```
end if
end LOOP
Close File "allcoach.txt"
print("Press anything to go back to Main Menu")
read regdisplayc_des
call reg_main_menu With Argument (studentid,studentsportid)
end.
```

33. STUDENT DISPLAY RECORDS OF SCHEDULE

```
FUNCTION reg_display_schedule(studentid,studentsportid)
begin
    declare regdisplaysch_des
    declare regdisplaysch_list = []
    print (60*" -")
    print ("\tWELCOME TO CHAMPION CLUB!")
    print ("\tVIOLENCE, SPEED, MOMENTUM!")
    Open File "allsportschedule.txt" in Read mode
    print("This is your registered sport schedule : ")
    LOOP line in "allsportschedule.txt"
        if (studentid in line)
            call str_to_list_convert With Argument (line), return to
            regdisplaysch_list
            call recordsschedule_display With Argument (regdisplaysch_list)
        end if
    end LOOP
    Close File "allsportschedule.txt"
    print("Press anything to go back to Main Menu")
```

```
        read regdisplaysch_des

    call reg_main_menu With Argument (studentid,studentsportid)

end.
```

34. STUDENT DISPLAY SELF-RECORD

```
FUNCTION reg_display_selfrecord(studentid,studentsportid)

    begin

        declare regdisplaysr_des

        declare regdisplaysr_list = []

        print (60*"~")

        print ("\tWELCOME TO CHAMPION CLUB!")

        print ("\tVIOLENCE, SPEED, MOMENTUM!")

        Open File "allregstudent.txt" in Read mode

        print("This is your personal record : ")

        LOOP line in "allregstudent.txt"

            if (studentid in line)

                call str_to_list_convert With Argument (line), return to
                regdisplaysr_list

                call recordsreg_display With Argument (regdisplaysr_list)

            end if

        end LOOP

        Close File "allregstudent.txt"

        print("Press anything to go back to Main Menu")

        read regdisplaysr_des

        call reg_main_menu With Argument (studentid,studentsportid)

    end.
```

35. STUDENT MODIFY SELF-RECORD

FUNCTION mod_selfrecord(studentid,studentsportid)

begin

declare modself_position, modself_new, modself_removeindicator,
modself_locindicator, modself_des, final, modself_indicator, x, y, modself_add

declare modself_otherlist = [], modself_list = [], modself_newlist = []

print (60*" -")

print ("\tWELCOME TO CHAMPION CLUB!")

print("\tVIOLENCE, SPEED, MOMENTUM!")

modself_position = 0

Open File "allregstudent.txt" in Read Mode

LOOP line in "allregstudent.txt"

append line into modself_otherlist

if modself_search in line

Delete modself_otherlist, Position (modself_position)

call str_to_list_convert With Argument (line), return to
modself_list

modself_removeindicator = modself_list[7]

call recordsreg_display With Argument (modself_list)

print("Is this the right coach data? Enter '1' if correct, or any key to
go back to Modify Main Menu : ")

read modself_des

if (modself_des == 1)

append modself_list[0] into modself_newlist

print("Enter your Username (If the data still the same, type
'same') : ")

read modself_new

```
        if (modself_new == "same" OR modself_new == "Same"
            OR modself_new == "SAME")

            append modself_list[1] into modself_newlist

        else

            append modself_new into modself_newlist

        end if

print("Enter your Password (Minimum 8 Characters long)(If the
password still the same, please enter it again) : ")

read modself_new

        while ((Length of modself_new) < 8)

            print("The Password is too short! Please enter a new
            one! ")

            print("Enter your Password (Minimum 8 Characters
            long)(If the password still the same, please enter it
            again) : ")

            read modself_new

        end while

        append modself_new into modself_newlist

print("Enter your Name (If the data still the same, type 'same') : ")

read modself_new

if (modself_new == "same" or modself_new == "Same" or
modself_new == "SAME"):

    append modself_list[3] into modself_newlist

else:

    append modself_new into modself_newlist

end if
```

```
print("Enter your Age (If the data still the same, type 'same') : ")

read modself_new

if (modself_new == "same" or modself_new == "Same" or
modself_new == "SAME"):

    append modself_list[4] into modself_newlist

else:

    append modself_new into modself_newlist

end if


print("Enter your Address (If the data still the same, type 'same') : ")

read modself_new

if (modself_new == "same" or modself_new == "Same" or
modself_new == "SAME"):

    append modself_list[5] into modself_newlist

else:

    append modself_new into modself_newlist

end if


print("Enter your Phone number (If the data still the same, type
'same') : ")

read modself_new

if (modself_new == "same" or modself_new == "Same" or
modself_new == "SAME"):

    append modself_list[6] into modself_newlist

else:

    append modself_new into modself_newlist

end if
```

```
print("Enter your Location ID (Type 'Help' if the list of Location
IDs is Needed) (If the data still the same, type 'same') : ")

read modself_new

modself_indicator = 0

while (modself_indicator == 0)

    while (modself_new == "help" OR modself_new ==
"HELP" OR modself_new == "Help")

        Open File "help_locationID.txt" in Read Mode

        print ("help_locationID.txt")

        Close File "help_locationID.txt"

        print("Enter your Location ID (Type 'Help' if the list
of Location IDs is Needed) (If the data still the
same, type 'same') : ")

        read modself_new

    end while

    if (modself_new == "same" OR modself_new == "Same"
OR modself_new == "SAME")

        append modself_list[7] into modself_newlist

        append modself_list[8] into modself_newlist

        modself_locindicator = modself_list[7]

    else

        if (modself_new == "L001")

            modself_indicator = 1

            append modself_new into modself_newlist

            append "Surabaya" into modself_newlist

            modself_locindicator = "L001"

        else if (modself_new == "L002")

            modself_indicator = 1

            append modself_new into modself_newlist
```



```
        append "Malang" into modself_newlist
        modself_locindicator = "L002"
    else if (modself_new == "L003")
        modself_indicator = 1
        append modself_new into modself_newlist
        append "Lampung" into modself_newlist
        modself_locindicator = "L003"
    else
        print("Wrong Input!")
        print("Enter your Location ID (Type 'Help'
if the list of Location IDs is Needed) (If the
data still the same, type 'same') : ")
        read modself_new
    end if
end if
end while

call help_sport With Argument (modself_locindicator)
print("Enter your Sport ID (If the data still the same, type 'same') :
")
read modself_new
if (modself_new == "same" or modself_new == "Same" or
modself_new == "SAME"):
    append modself_list[9] into modself_newlist
    append modself_list[10] into modself_newlist
else:
    append modself_new into modself_newlist
    call sportname_search With Argument (modself_new),
    return to modself_new
```

```
        append modself_new into modself_newlist
    end if

    call recordsreg_display With Argument (modself_newlist)

    print("Please enter '1' to submit the modified the data, or enter any
    key to enter a new set of data : ")

    read modself_des

    if (modself_des == 1)

        final = (modself_newlist[0]+" | "+modself_newlist[1]+" |
        "+modself_newlist[2]+" | "+modself_newlist[3]+" |
        "+modself_newlist[4]+" | "+modself_newlist[5]+" |
        "+modself_newlist[6]+" | "+modself_newlist[7]+" |
        "+modself_newlist[8]+" | "+modself_newlist[9]+" |
        "+modself_newlist[10]+"\\n")

        Insert final into modself_otherlist, position
        (modself_position)

    else

        call mod_selfrecord With Argument
        (studentid,studentsportid)

    end if

    else :

        call reg_main_menu With Argument
        (studentid,studentsportid)

    end if

end if

modself_position = modself_position + 1

end LOOP

Close File "allregstudent.txt"

Open File "allregstudent.txt" in Write mode
```

```
    LOOP x in range(modself_position)
        y = (-modself_position+x)
        modself_add = modself_otherlist[y]
        Write modself_add into "allregstudent.txt"
    end LOOP
    Close File "allregstudent.txt"

    modself_otherlist = []
    modself_position = 0

    if (modself_removeindicator == "L001")
        Open File "regstudent1surabaya.txt" in Read Mode
        LOOP line in "regstudent1surabaya.txt"
            append line into modself_otherlist
            if modself_search in line
                Delete modself_otherlist, Position (modself_position)
                modself_position = modself_position - 1
                modself_position = modself_position + 1
            end LOOP
            Close File "regstudent1surabaya.txt"

            Open File "regstudent1surabaya.txt" in Write mode
            LOOP x in range(modself_position)
                y = (-modself_position+x)
                modself_add = modself_otherlist[y]
                Write modself_add into "regstudent1surabaya.txt"
            end LOOP
```

Close File "regstudent1surabaya.txt"

else if (modself_removeindicator == "L002")

Open File "regstudent2malang.txt" in Read Mode

LOOP line in "regstudent2malang.txt"

append line into modself_otherlist

if modself_search in line

Delete modself_otherlist, Position (modself_position)

modself_position = modself_position - 1

modself_position = modself_position + 1

end LOOP

Close File "regstudent2malang.txt"

Open File "regstudent2malang.txt" in Write mode

LOOP x in range(modself_position)

y = (-modself_position+x)

modself_add = modself_otherlist[y]

Write modself_add into "regstudent2malang.txt"

end LOOP

Close File "regstudent2malang.txt"

else if (modself_removeindicator == "L003")

Open File "regstudent3lampung.txt" in Read Mode

LOOP line in "regstudent3lampung.txt"

append line into modself_otherlist

if modself_search in line

Delete modself_otherlist, Position (modself_position)

```
        modself_position = modself_position - 1
        modself_position = modself_position + 1
    end LOOP

    Close File "regstudent3lampung.txt"

    Open File "regstudent3lampung.txt" in Write mode
    LOOP x in range(modself_position)
        y = (-modself_position+x)
        modself_add = modself_otherlist[y]
        Write modself_add into "regstudent3lampung.txt"
    end LOOP

    Close File "regstudent3lampung.txt"
end if

print("Done Deleting the data from old file, now printing the data into the new
file")

if (modself_locindicator == "L001")
    Open File "regstudent1surabaya.txt" in Append mode
    Append Final into "regstudent1surabaya.txt"
    Close File "regstudent1surabaya.txt"

else if (modself_locindicator == "L002")
    Open File "regstudent2malang.txt" in Append mode
    Append Final into "regstudent2malang.txt"
    Close File "regstudent2malang.txt"
```

```
    else if (modself_locindicator == "L003")
        Open File "regstudent3lampung.txt" in Append mode
        Append Final into "regstudent3lampung.txt"
        Close File "regstudent3lampung.txt"
    end if

    print("Done, Press any key to return to go back to Main Menu")
    read modself_des
    call reg_main_menu With Argument (studentid,studentsportid)
end.
```

36. STUDENT FEEDBACK

FUNCTION reg_feedback(studentid,studentsportid)

```
begin

    declare regfeedback_position, regfeedback_coachid, brating, remove,
    regfeedback_cmt, regfeedback_loc, x, y, regfeedback_add

    declare regfeedback_otherlist = [], regfeedback_list = []

    print (60*" -")

    print ("\tWELCOME TO CHAMPION CLUB!")

    print ("\tVIOLENCE, SPEED, MOMENTUM!")

    regfeedback_position = 0

    Open File "allcoach.txt" in Read Mode

    LOOP line in "allcoach.txt"

        if studentsportid in line

            call str_to_list_convert With Argument (line), return to
            regfeedback_list

            remove = Pop regfeedback_list, position(11)

            In remove, Replace ("R") with ("")
```

```
        Insert remove into regfeedback_list, position(11)

        print("\n\nCOACH ID\t\t: ",regfeedback_list[0])

        print("COACH NAME\t\t: ",regfeedback_list[1])

    end if

end LOOP

print("Enter the coach's ID of the coach you want to give the rating and feedback
on : ")

read regfeedback_coachid

Close File "allcoach.txt"

Open File "allcoach.txt" in Read mode

LOOP line in "allcoach.txt"

    append line into regfeedback_otherlist

    if regfeedback_coachid in line

        Delete regfeedback_otherlist, Position (regfeedback_position)

        call str_to_list_convert With Argument (line), return to
        regfeedback_list

        regfeedback_loc = modself_list[7]

        brating = Pop regfeedback_list, Position(11)

        In remove, Replace ("R") with ("")

        Insert brating into regfeedback_list, position(11)

        print("Enter your Rating Between 1(Lowest) - 5(Highest) : ")

        read regfeedback_rating

        while (regfeedback_rating>5 OR regfeedback_rating<1)

            print("Invalid Value! Please try again!")

            print("Enter your Rating Between 1(Lowest) - 5(Highest) :
            ")

            read regfeedback_rating
```

```
end while

regfeedback_list[12] = regfeedback_list[12] + 1
regfeedback_list[13] = regfeedback_list + regfeedback_rating
regfeedback_list[11] = regfeedback_list[13]/regfeedback_list[12]
Round regfeedback_list[11] to 2 Decimal Places
print("Input comment, critique, or feedback for the coach : ")
read regfeedback_cmt

print("Okay, Submitting your Rating and Feedback...")

final = (regfeedback_list[0]+" | "+regfeedback_list[1]+" |
"+regfeedback_list[2]+" | "+regfeedback_list[3]+" |
"+regfeedback_list[4]+" | "+regfeedback_list[5]+" |
"+regfeedback_list[6]+" | "+regfeedback_list[7]+" |
"+regfeedback_list[8]+" | "+regfeedback_list[9]+" |
"+regfeedback_list[10]+" | "+R"+regfeedback_list[11]+" |
"+regfeedback_list[12]+" | "+regfeedback_list[13]+"\n")

Insert final into regfeedback_otherlist,
position(regfeedback_position)

end if

regfeedback_position = regfeedback_position + 1

end LOOP

Close File "allcoach.txt"

Open File "coachfeedback.txt" in Append Mode

Append ("For Coach "+regfeedback_list[1]+"\n\tCode
"+regfeedback_list[0]+"\n\tFeedback : "+regfeedback_cmt+"\n") into
"coachfeedback.txt"

Close File "coachfeedback.txt"

Open File "allcoach.txt" in Write mode

LOOP x in range(regfeedback_position)
```



```
y = (-regfeedback_position+x)
regfeedback_add = regfeedback_otherlist[y]
Write regfeedback_add into "allcoach.txt"
end LOOP
Close File "allcoach.txt"

regfeedback_otherlist = []
regfeedback_position = 0

if (regfeedback_loc == "L001")
    Open File "coach1surabaya.txt" in Read Mode
    LOOP line in "coach1surabaya.txt"
        append line into regfeedback_otherlist
        if regfeedback_search in line
            Delete regfeedback_otherlist, Position
            (regfeedback_position)
            regfeedback_position = regfeedback_position - 1
            regfeedback_position = regfeedback_position + 1
        end LOOP
    Close File "coach1surabaya.txt"

    Open File "coach1surabaya.txt" in Write mode
    LOOP x in range(regfeedback_position)
        y = (-regfeedback_position+x)
        regfeedback_add = regfeedback_otherlist[y]
        Write regfeedback_add into "coach1surabaya.txt"
    end LOOP
```

Close File "coach1surabaya.txt"

else if (regfeedback_loc == "L002")

Open File "coach2malang.txt" in Read Mode

LOOP line in "coach2malang.txt"

append line into regfeedback_otherlist

if regfeedback_search in line

Delete regfeedback_otherlist, Position
(regfeedback_position)

regfeedback_position = regfeedback_position - 1

regfeedback_position = regfeedback_position + 1

end LOOP

Close File "coach2malang.txt"

Open File "coach2malang.txt" in Write mode

LOOP x in range(regfeedback_position)

y = (-regfeedback_position+x)

regfeedback_add = regfeedback_otherlist[y]

Write regfeedback_add into "coach2malang.txt"

end LOOP

Close File "coach2malang.txt"

else if (regfeedback_loc == "L003")

Open File "coach3lampung.txt" in Read Mode

LOOP line in "coach3lampung.txt"

append line into regfeedback_otherlist

if regfeedback_search in line

```
        Delete regfeedback_otherlist, Position
        (regfeedback_position)

        regfeedback_position = regfeedback_position - 1
        regfeedback_position = regfeedback_position + 1
    end LOOP

    Close File "coach3lampung.txt"

    Open File "coach3lampung.txt" in Write mode
    LOOP x in range(regfeedback_position)
        y = (-regfeedback_position+x)
        regfeedback_add = regfeedback_otherlist[y]
        Write regfeedback_add into "coach3lampung.txt"
    end LOOP

    Close File "coach3lampung.txt"

end if

print("Done, Press anything to go back to Main Menu")

read x

call reg_main_menu With Argument (studentid,studentsportid)

end.
```

37. SPORTNAME SEARCH

```
FUNCTION sportname_seach(x)

    begin

        declare name

        declare spl = []

        Open File "allsport.txt" in Read Mode

        LOOP line in "allsport.txt"
```

```
        if x in line
            Split line into spl, exclude(" | ")
            name = spl[1]
            return name
        end if
    end LOOP
end.
```

38. COACHNAME SEARCH

```
FUNCTION coachname_seach(x)
    begin
        declare name
        declare spl = []
        Open File "allcoach.txt" in Read Mode
        LOOP line in "allcoach.txt"
            if x in line
                Split line into spl, exclude(" | ")
                name = spl[1]
                return name
            end if
        end LOOP
    end.
```

39. AUTOMATIC ID

```
FUNCTION id_auto(remover)
    begin
        declare existID, length, newID
```

```
declare spl = []  
if (remover == "ID")  
    myfile = Open File "allcoach.txt" in Read Mode  
else if (remover == "S")  
    myfile = Open File "allsport.txt" in Read Mode  
else if (remover == "ST")  
    myfile = Open File "allregstudent.txt" in Read Mode  
else if (remover == "SCH")  
    myfile = Open File "allsportschedule.txt" in Read Mode  
end if  
LOOP (line in myfile)  
    Split line into spl, exclude(" | ")  
    existID = spl[0]  
end LOOP  
Close myfile  
  
if (remover == "ID")  
    in existID, replace ("ID") with ("")  
else if (remover == "S")  
    in existID, replace ("S") with ("")  
else if (remover == "ST")  
    in existID, replace ("ST") with ("")  
else if (remover == "SCH")  
    in existID, replace ("SCH") with ("")  
end if  
existID = existID + 1  
length = Length of existID
```

```
if (length == 1 AND remover == "ID")
    newID = ("ID00"+existID)
    Close File "allcoach.txt"
else if (length == 2 AND remover == "ID")
    newID = ("ID0"+existID)
    Close File "allcoach.txt"
else if (length == 3 AND remover == "ID")
    newID = ("ID"+existID)
    Close File "allcoach.txt"
else if (length == 1 AND remover == "S")
    newID = ("S00"+existID)
    Close File "allsport.txt"
else if (length == 2 AND remover == "S")
    newID = ("S0"+existID)
    Close File "allsport.txt"
else if (length == 3 AND remover == "S")
    newID = ("S"+existID)
    Close File "allsport.txt"
else if (length == 1 AND remover == "ST")
    newID = ("ST00"+existID)
    Close File "allregstudent.txt"
else if (length == 2 AND remover == "ST")
    newID = ("ST0"+existID)
    Close File "allregstudent.txt"
else if (length == 3 AND remover == "ST")
    newID = ("ST"+existID)
```

```
        Close File "allregstudent.txt"

    else if (length == 1 AND remover == "SCH")
        newID = ("SCH00"+existID)
        Close File "allsportschedule.txt"

    else if (length == 2 AND remover == "SCH")
        newID = ("SCH0"+existID)
        Close File "allsportschedule.txt"

    else if (length == 3 AND remover == "SCH")
        newID = ("SCH"+existID)
        Close File "allsportschedule.txt"

    end if

    return newID

end.
```

40. RECORDSCOACH DISPLAY

```
FUNCTION recordscoach_display(mylist)

    begin

        declare remove

        remove = Pop mylist, position(11)

        In remove, Replace ("R") with ("")

        Insert remove into mylist, position(11)

        print("\n\nCOACH ID\t\t: ",mylist[0])
        print("COACH NAME\t\t: ",mylist[1])
        print("DATE JOINED\t\t: ",mylist[2])
        print("DATE TERMINATED\t\t: ",mylist[3])
        print("HOURLY RATE IN MYR\t: ",mylist[4])
        print("PHONE NUMBER\t\t: ",mylist[5])
```

```
print("ADDRESS\t\t: ",mylist[6])
print("LOCATION ID\t\t: ",mylist[7])
print("LOCATION NAME\t\t: ",mylist[8])
print("SPORT ID\t\t: ",mylist[9])
print("SPORT NAME\t\t: ",mylist[10])
print("RATING\t\t\t: ",mylist[11])
print("NUMBER OF RATING\t: ",mylist[12])

end.
```

41. RECORDSPORT DISPLAY

```
FUNCTION recordssport_display(mylist)
begin
    print("\n\nSPORT ID\t\t: ",mylist[0])
    print("SPORTNAME\t\t: ",mylist[1])
    print("LOCATION ID\t\t: ",mylist[2])
    print("LOCATION NAME\t\t: ",mylist[3])

end.
```

42. RECORDSSCHEDULE DISPLAY

```
FUNCTION recordsschedule_display(mylist)
begin
    print("\n\nSCHEDULE ID\t\t\t: ",mylist[0])
    print("LOCATION ID\t\t\t: ",mylist[1])
    print("LOCATION NAME\t\t\t: ",mylist[2])
    print("SPORT ID\t\t\t: ",mylist[3])
    print("SPORT NAME\t\t\t: ",mylist[4])
    print("COACH ID\t\t\t: ",mylist[5])
```



```
print("COACH NAME\t\t\t: ",mylist[6])
print("DAY \t\t\t\t: ",mylist[7])
print("STARTING TIME BY THOUSAND\t: ",mylist[8])
print("TIME DURATION IN MINUTES\t: ",mylist[9])

end.
```

43. RECORDSREG DISPLAY

FUNCTION recordsreg_display(mylist)

```
begin
    print("\n\nSTUDENT ID\t\t: ",mylist[0])
    print("STUDENT USERNAME\t: ",mylist[1])
    print("STUDENT PASSWORD\t: ",mylist[2])
    print("STUDENT NAME\t\t: ",mylist[3])
    print("AGE\t\t\t\t: ",mylist[4])
    print("ADDRESS\t\t\t: ",mylist[5])
    print("PHONE NUMBER\t\t: ",mylist[6])
    print("LOCATION ID\t\t\t: ",mylist[7])
    print("LOCATION NAME\t\t: ",mylist[8])
    print("SPORT ID\t\t\t: ",mylist[9])
    print("SPORT NAME\t\t: ",mylist[10])

end.
```

44. STRING TO LIST CONVERTER

FUNCTION str_to_list_convert(line)

```
begin
    declare remove
    declare mylist = []
```

```
Split line into mylist, exclude(" | ")
remove = Pop mylist, Last Position
in remove, Replace ("\n") with ("")
append remove into mylist
return (mylist)

end.
```

45. BUBBLE SORT

```
FUNCTION bubble_sort(sort_list,length)
begin
    declare flag, i, temp
    flag = 0
    while (flag == 0)
        flag = 1
        LOOP i in range(length-1)
            if sort_list[i] > sort_list[i+1]
                flag = 0
                temp = sort_list[i]
                sort_list[i] = sort_list[i+1]
                sort_list[i+1] = temp
            end LOOP
        end while
    return(sort_list)
end.
```

46. HELP SPORT

FUNCTION help_sport(x)

begin

declare helpsport_list = []

Open File "allsport.txt" in Read Mode

print("The Available Sports in location ",x," are : ")

LOOP line in "allsport.txt"

if x in line

call str_to_list_convert With Argument (line), return to
helpsport_list

print(helpsport_list[1], " = ", helpsport_list[0])

end if

end LOOP

Close File "allsport.txt"

end.

47. HELP COACH

FUNCTION help_coach(x,y)

begin

declare helpcoach_list = []

Open File "allcoach.txt" in Read Mode

print("The Available Coach in for ",y,"and in ",x," are :")

LOOP line in "allcoach.txt"

if (x AND y) in line

call str_to_list_convert With Argument (line), return to
helpcoach_list

print(helpcoach_list[1], " = ", helpcoach_list[0])

end if

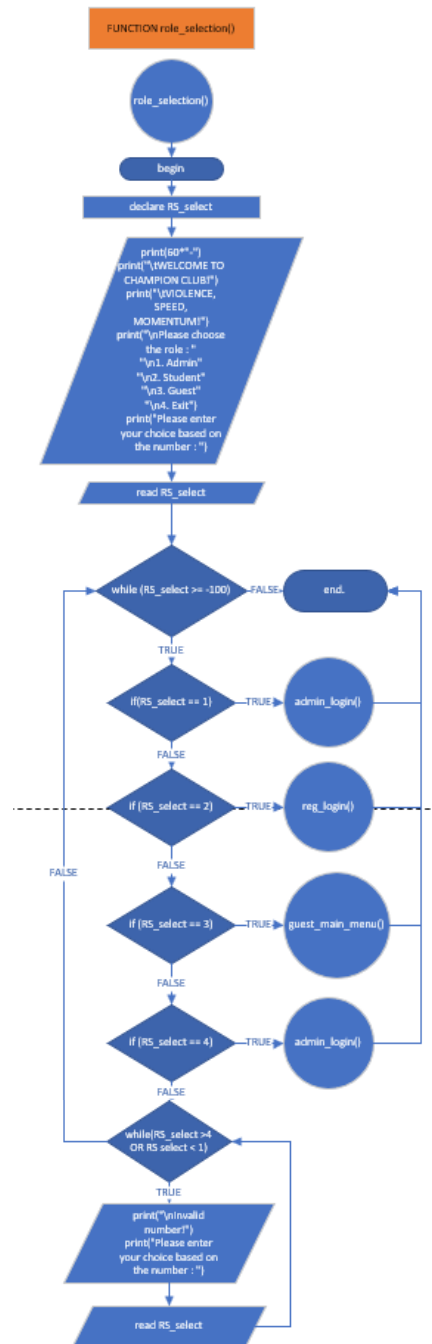
```
        end LOOP
        Close File "allcoach.txt"
    end.
```

48. MAIN BASE

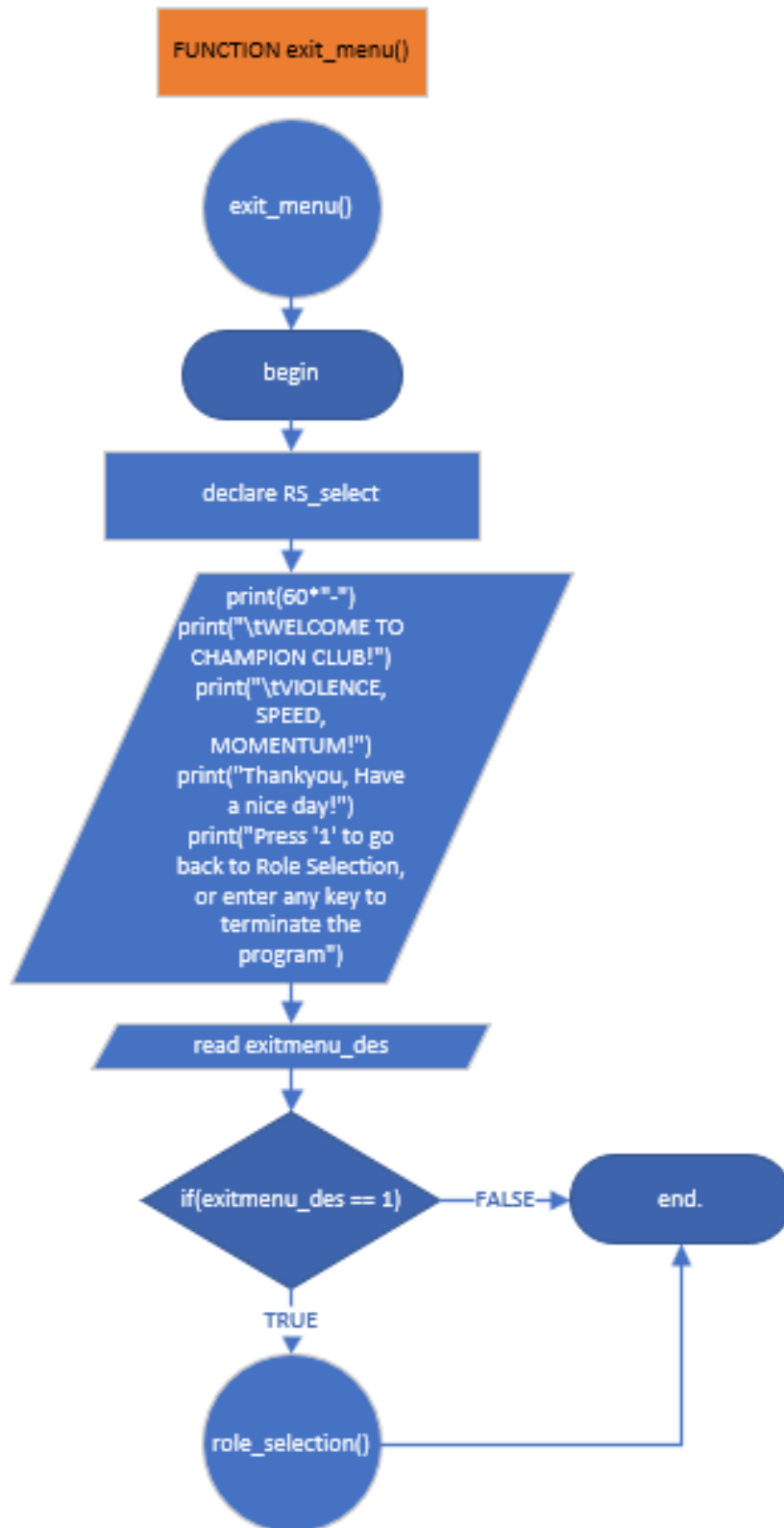
```
begin
    call role_selection()
end.
```

4.0 Design – Flowchart

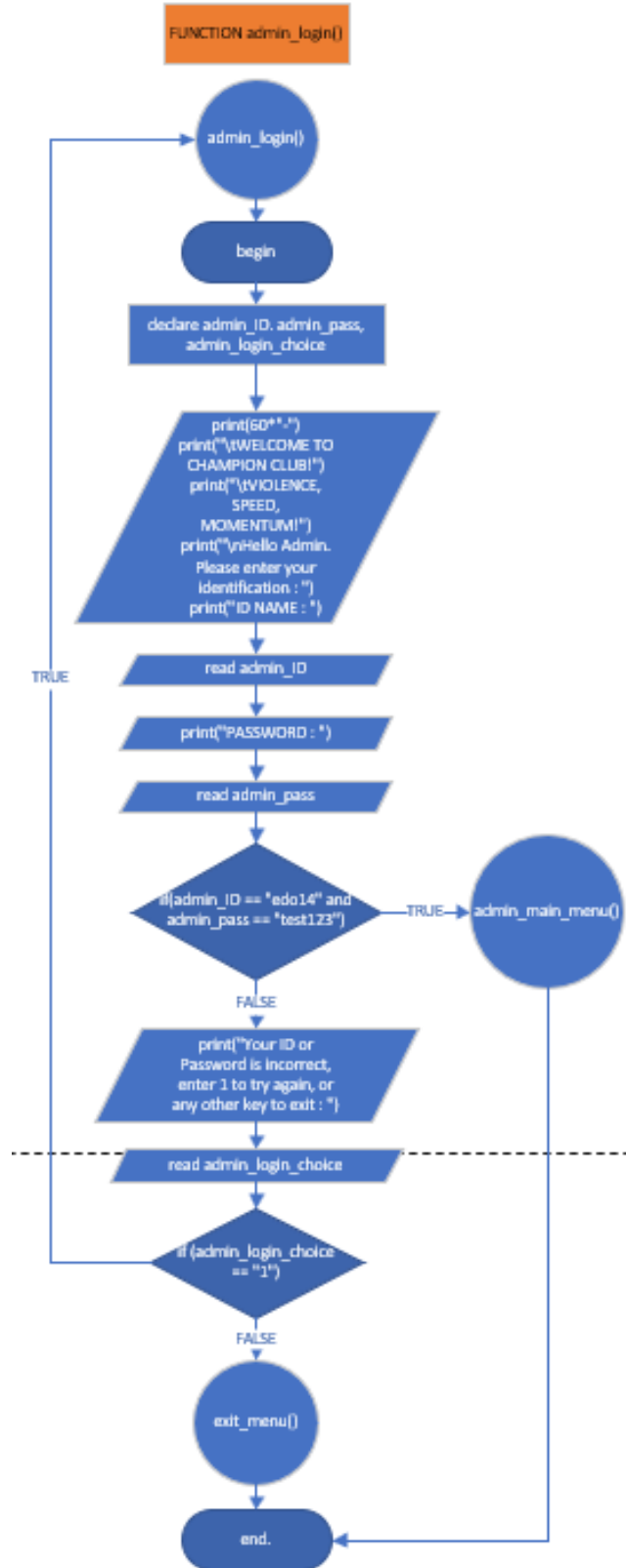
1. Role Selection



2. Exit Menu



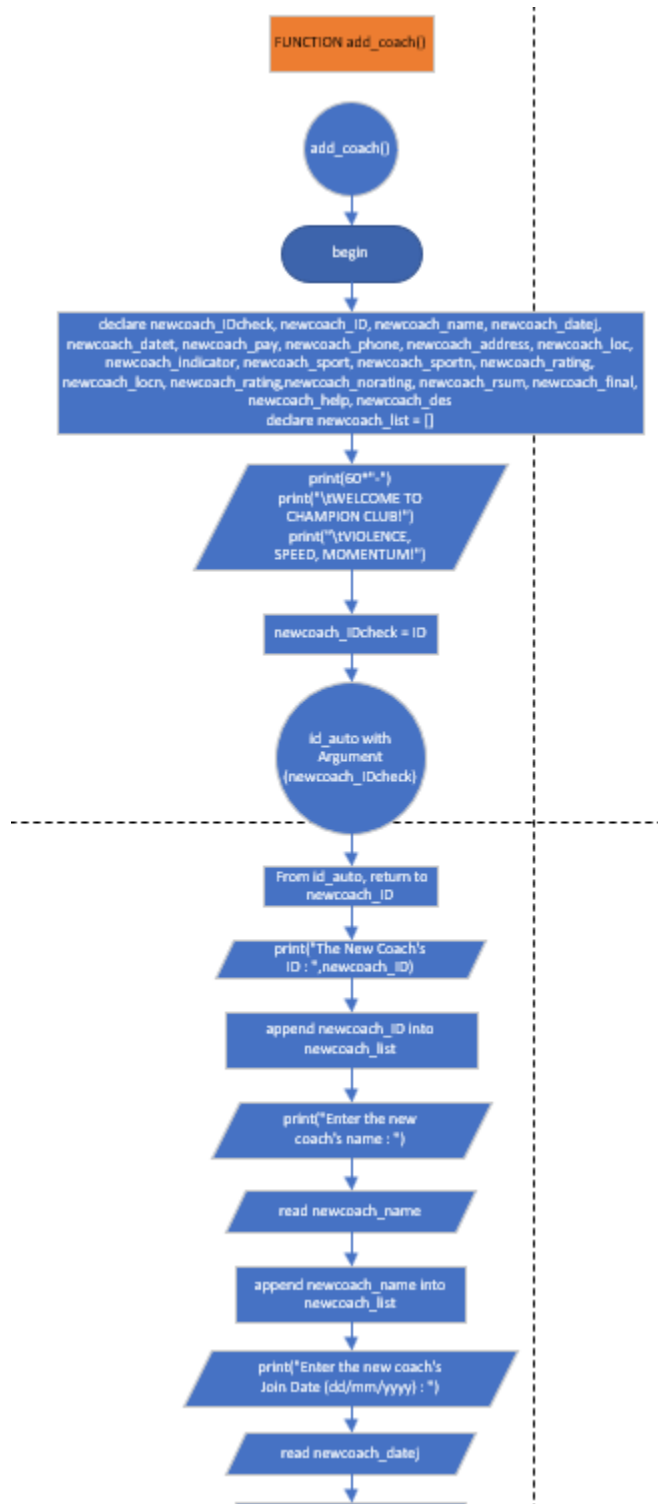
3. Admin Login

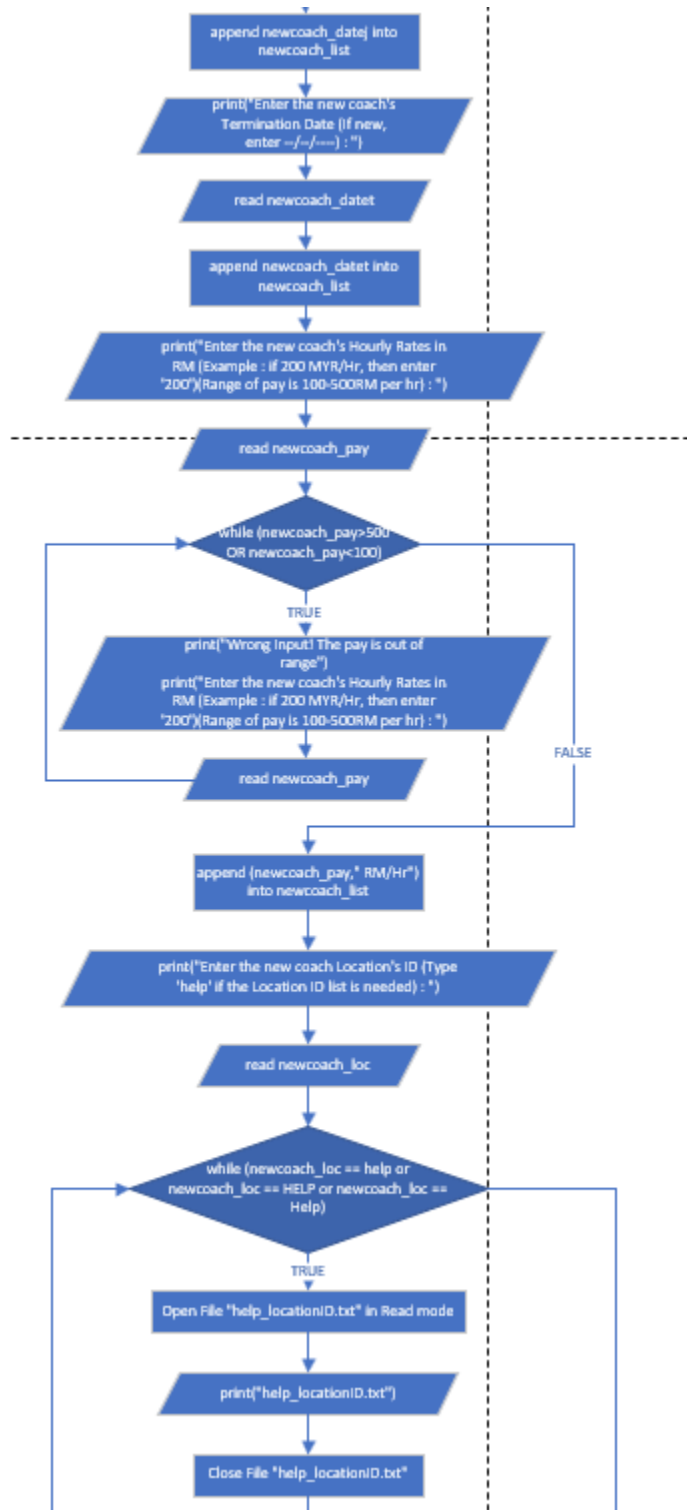


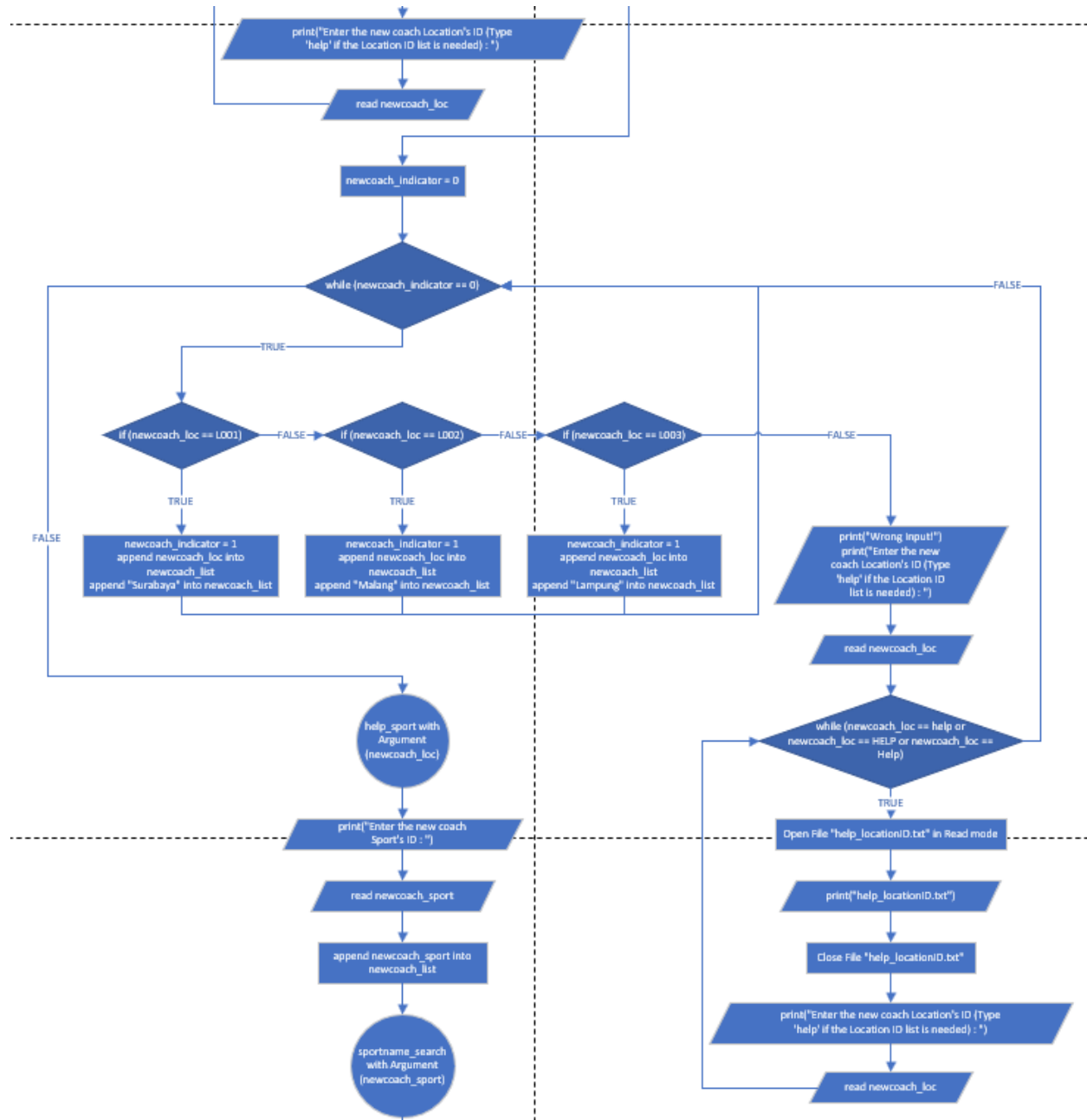
4. Admin Main Menu

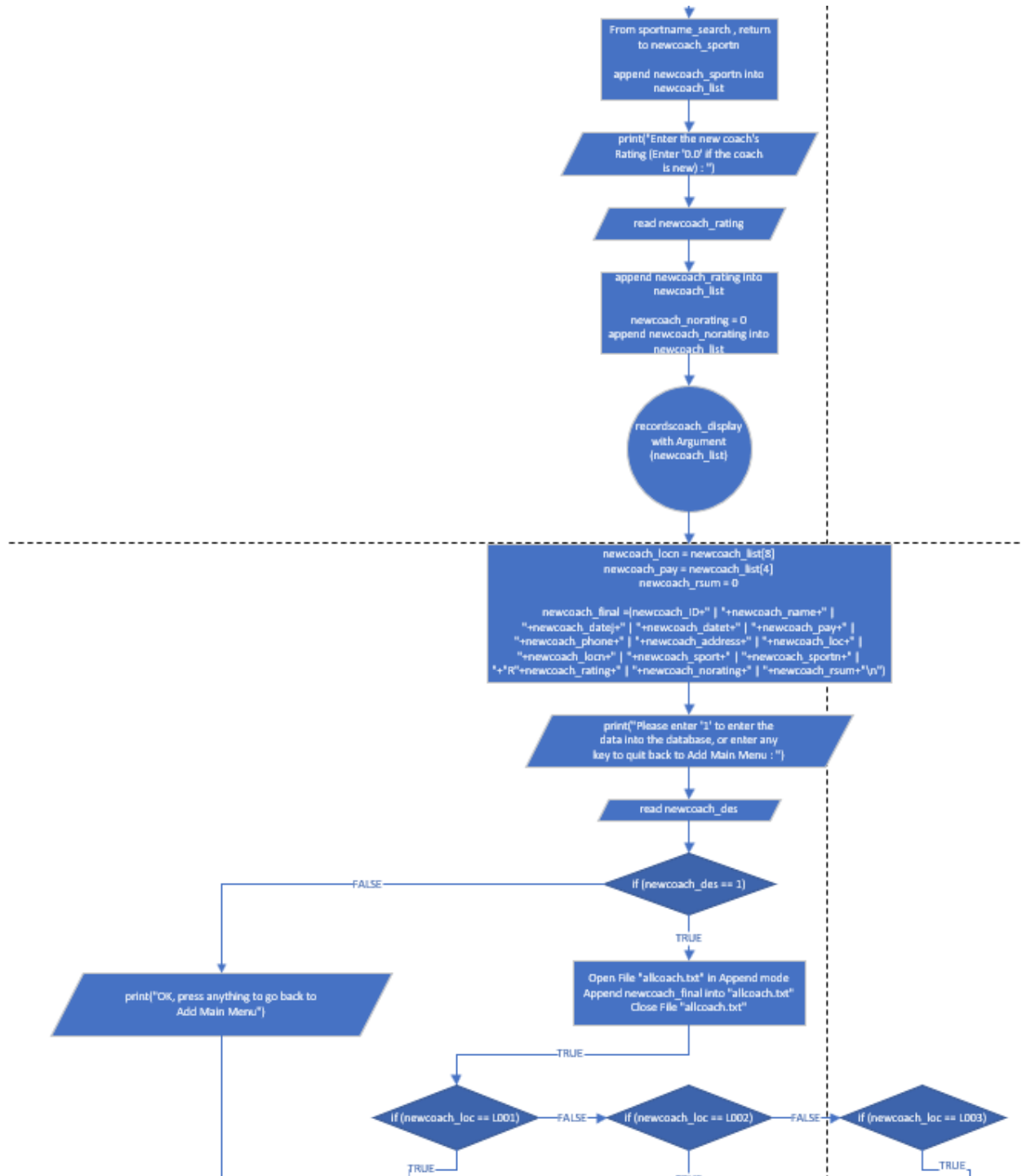


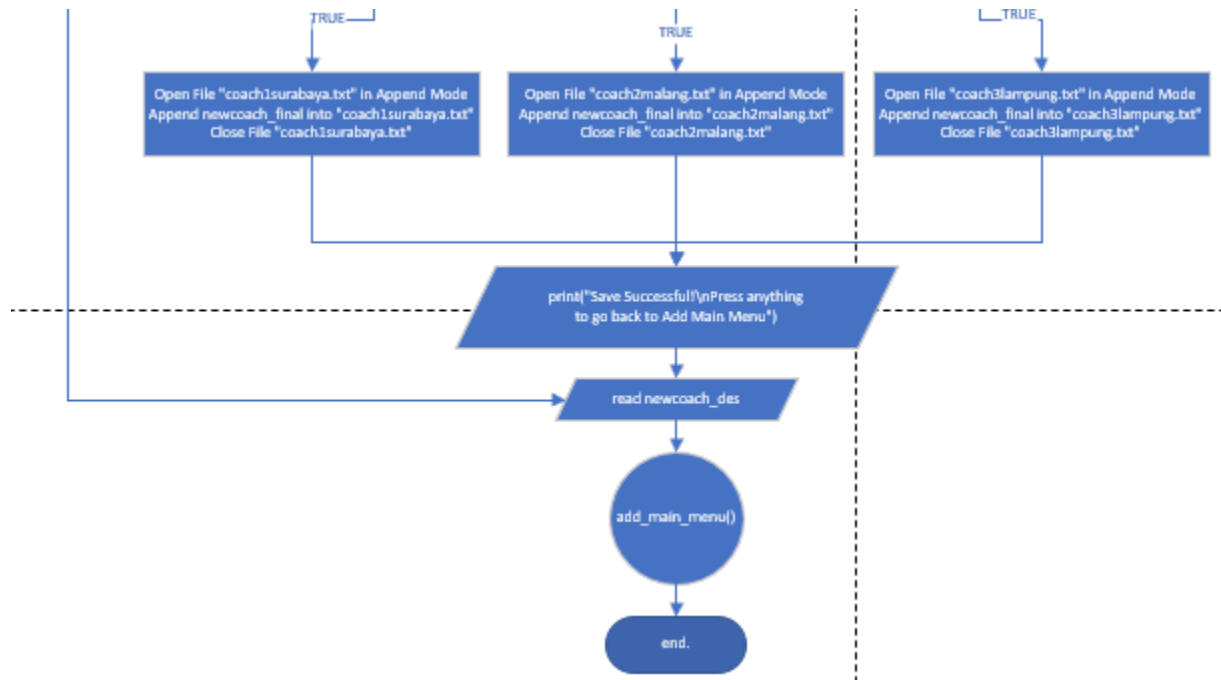
6. Add Records of Coach



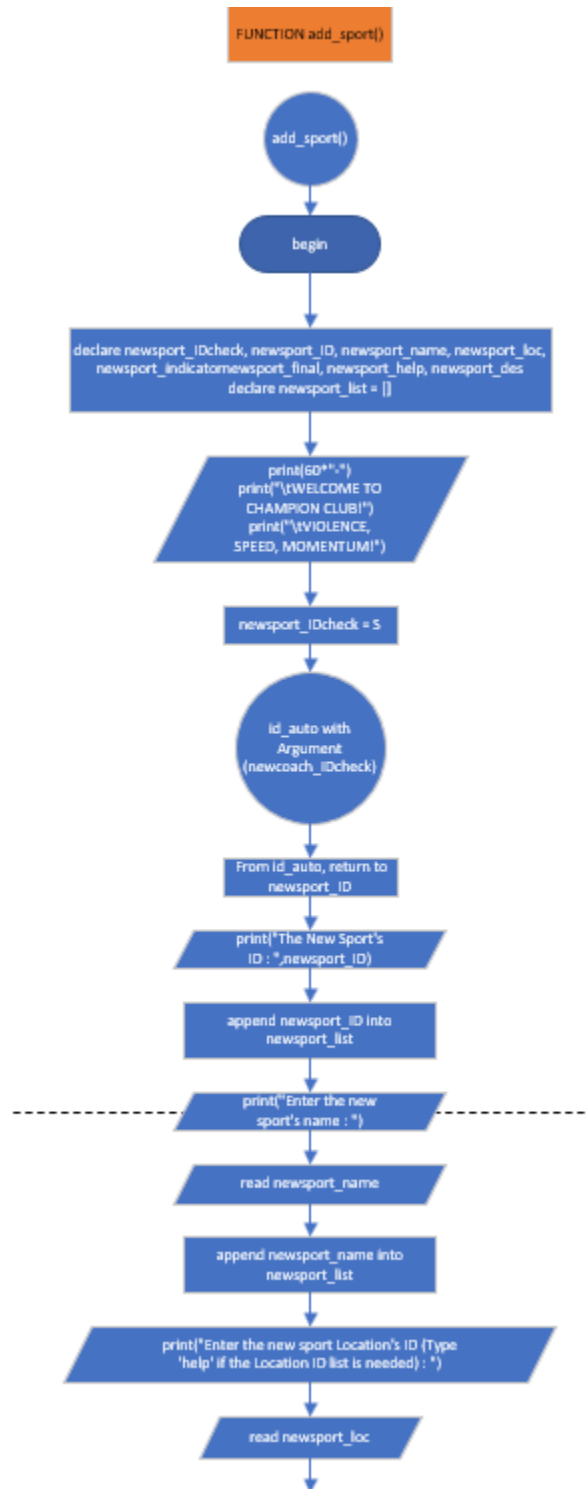


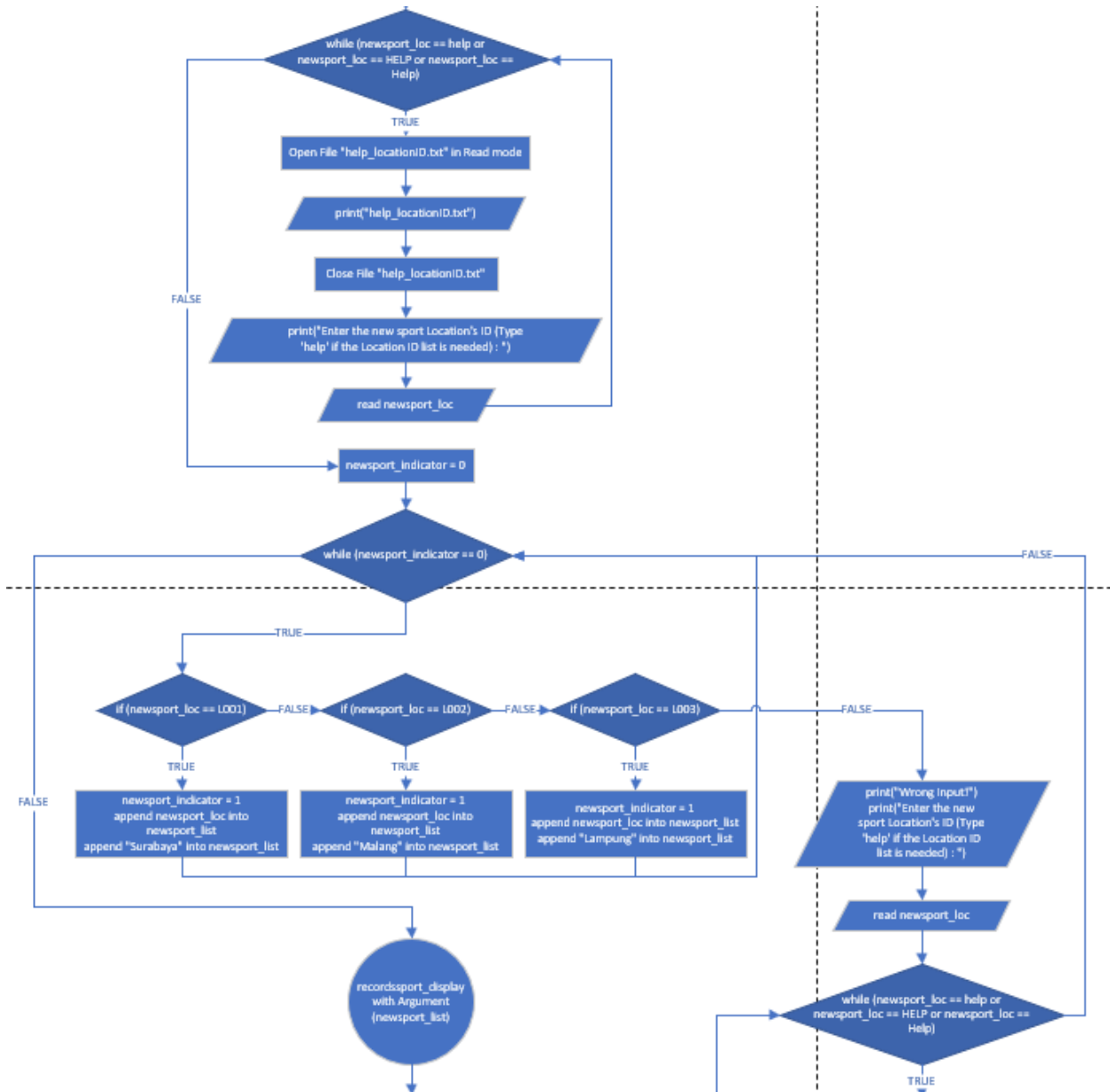


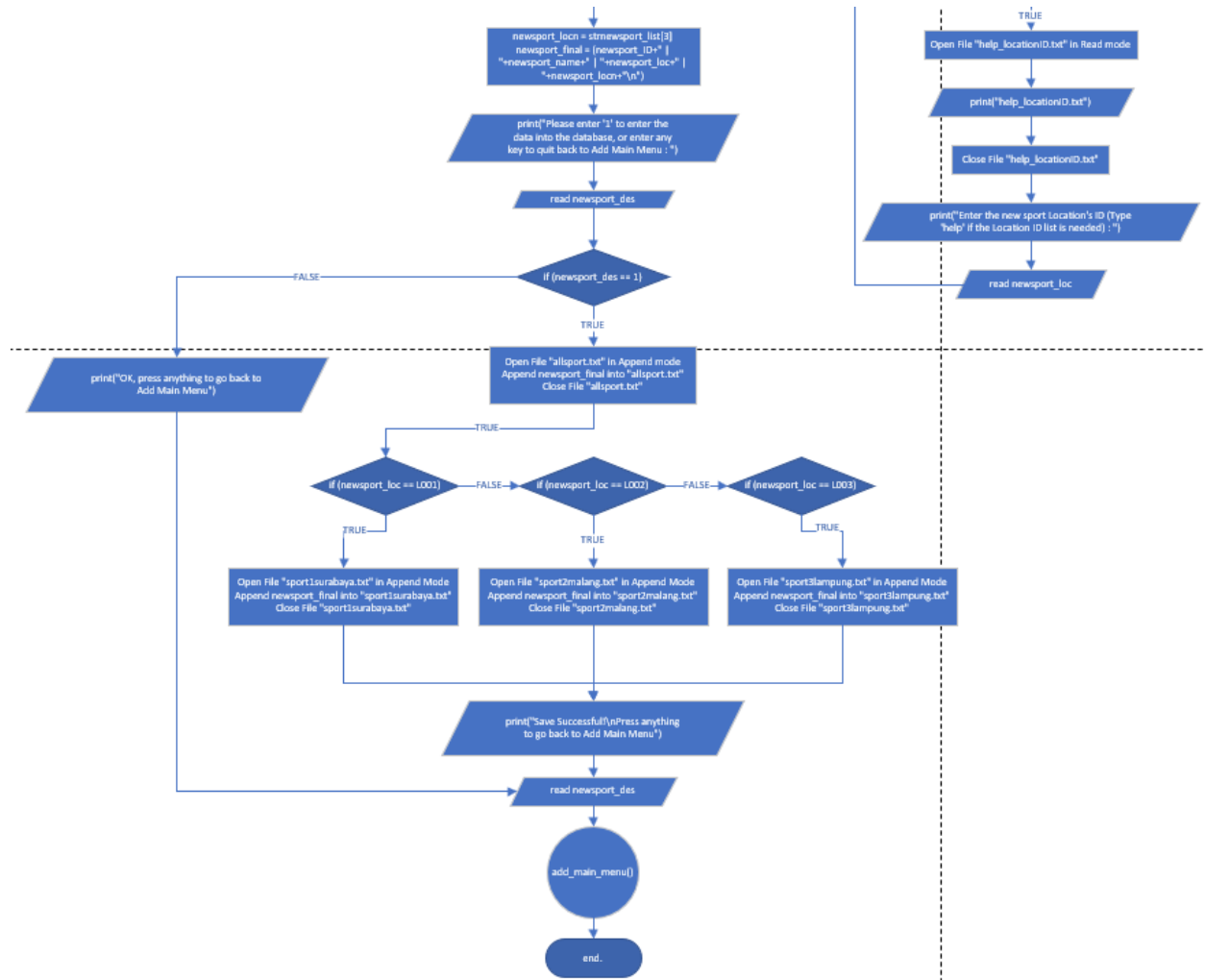




7. Add Records of Sport

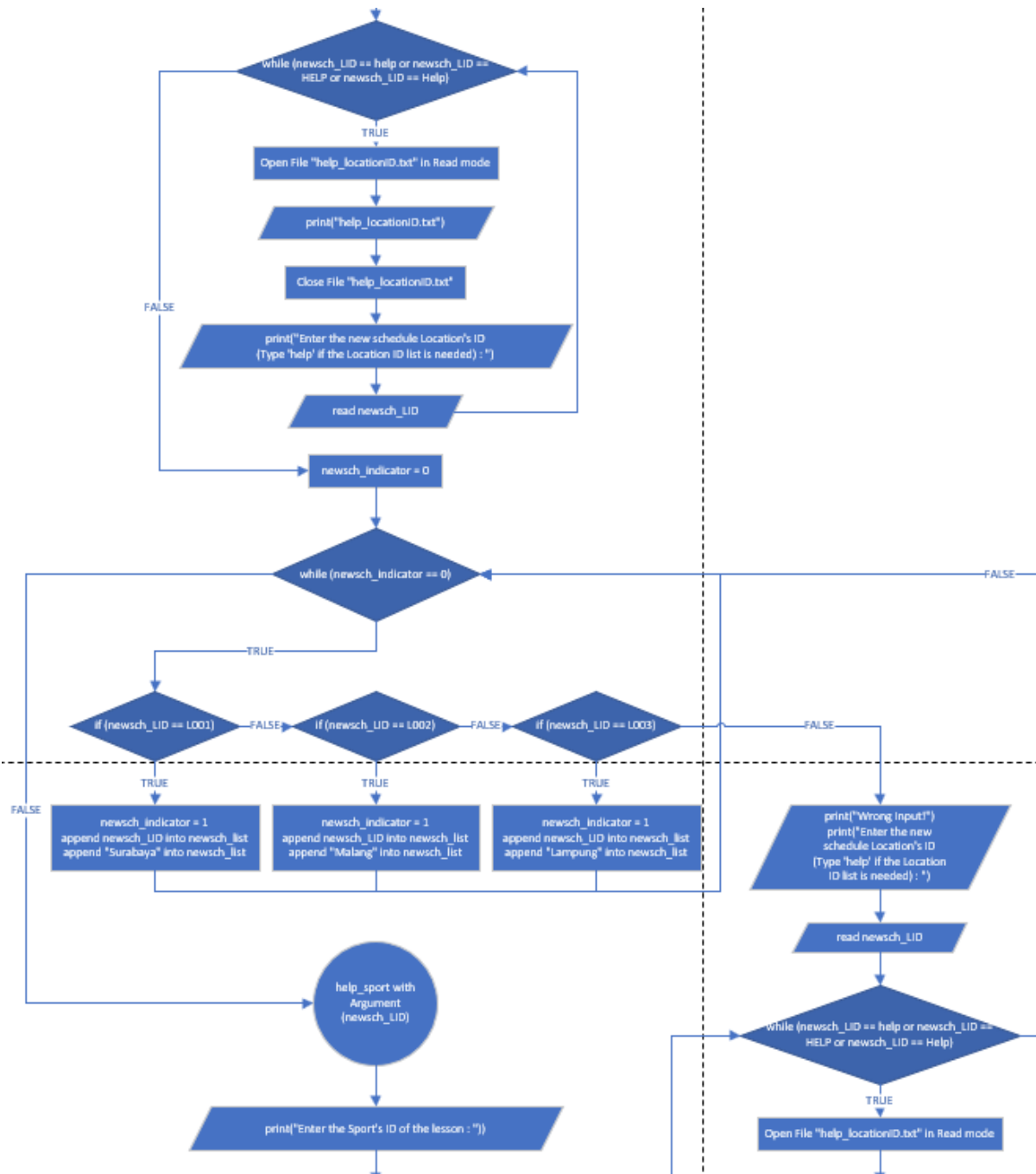


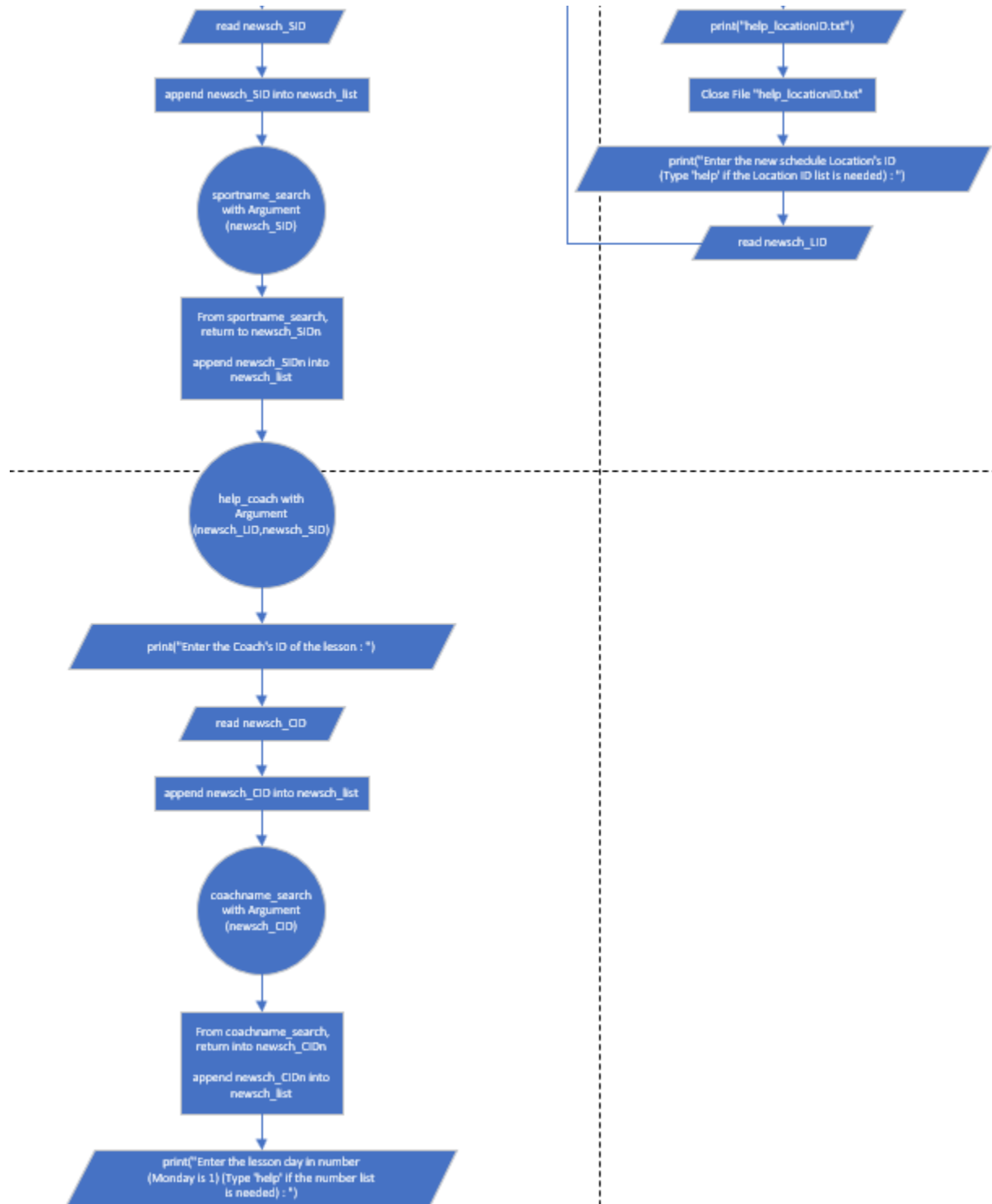


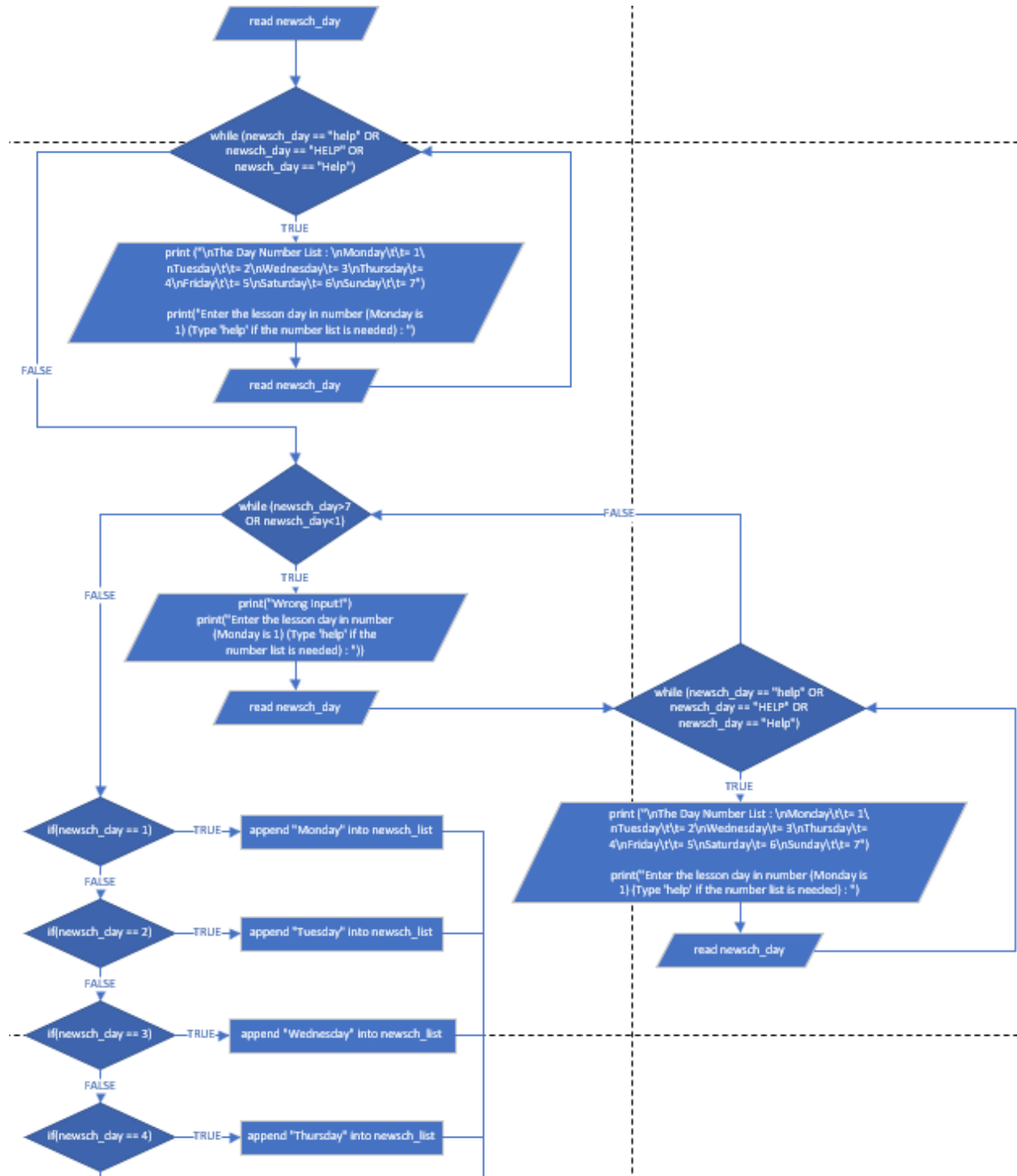


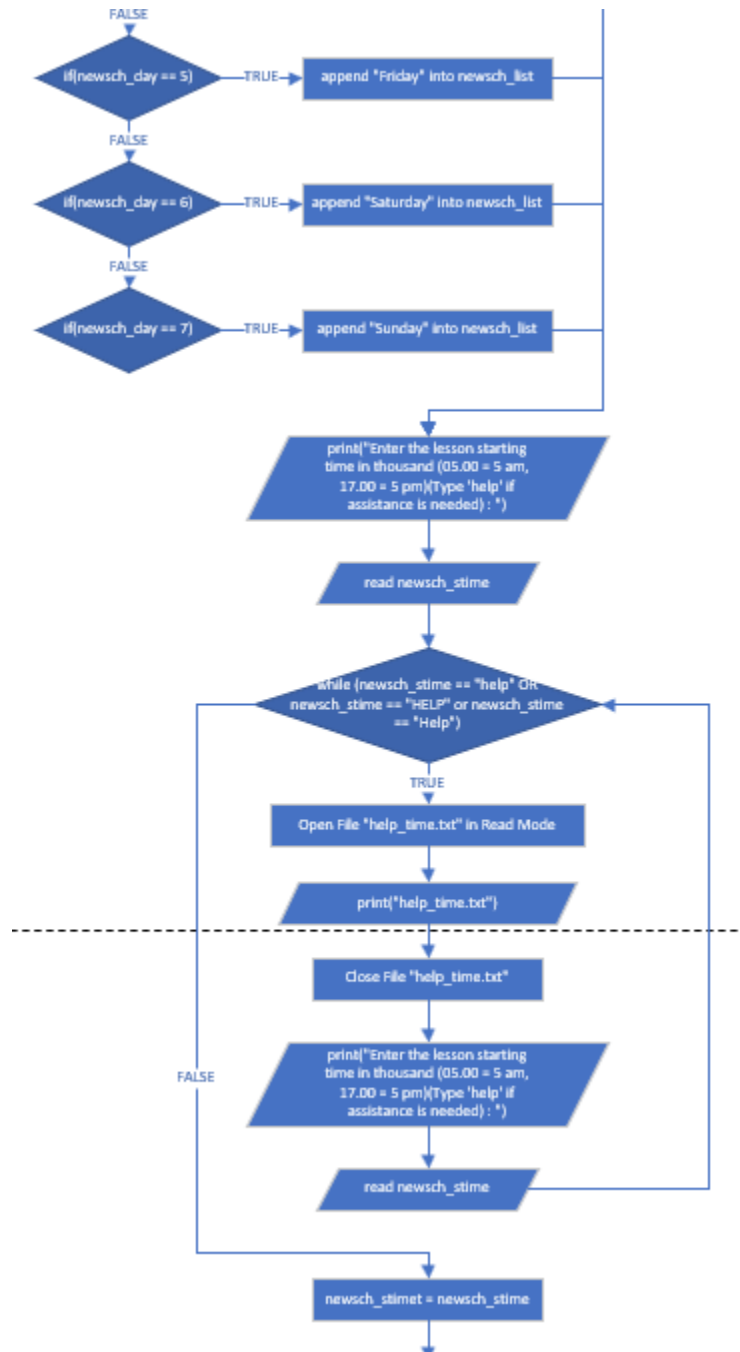
8. Add Records of Schedule

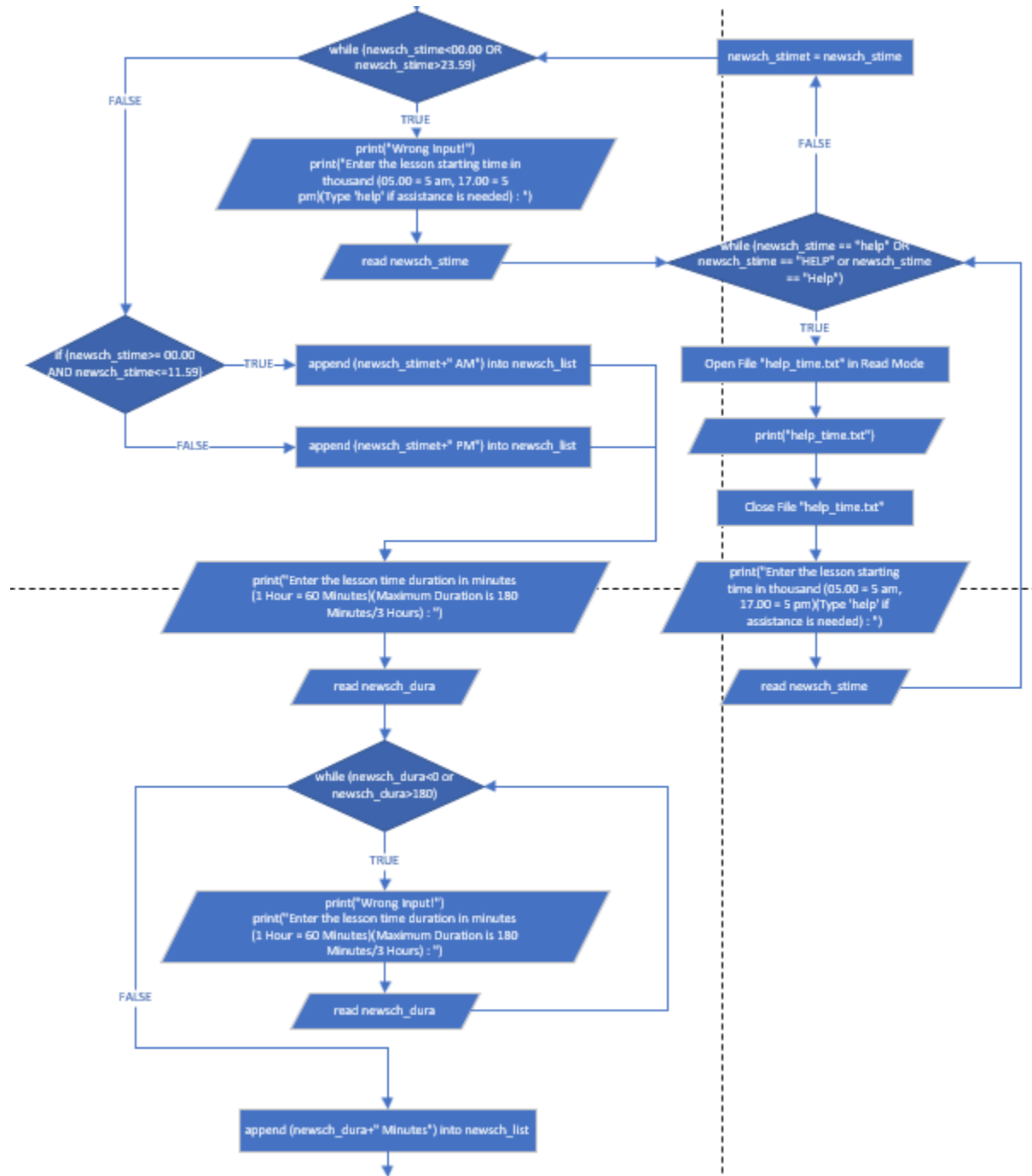


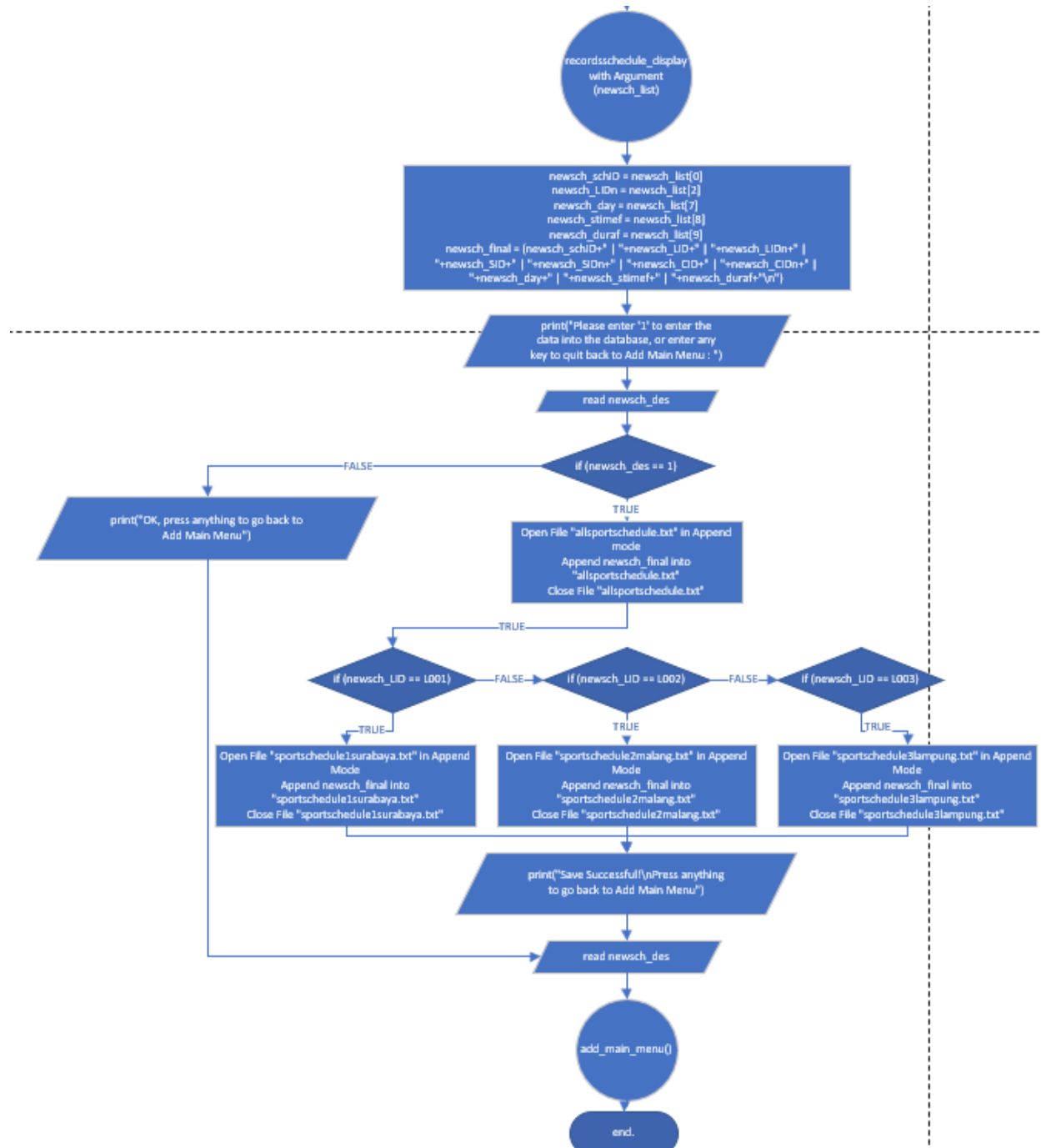




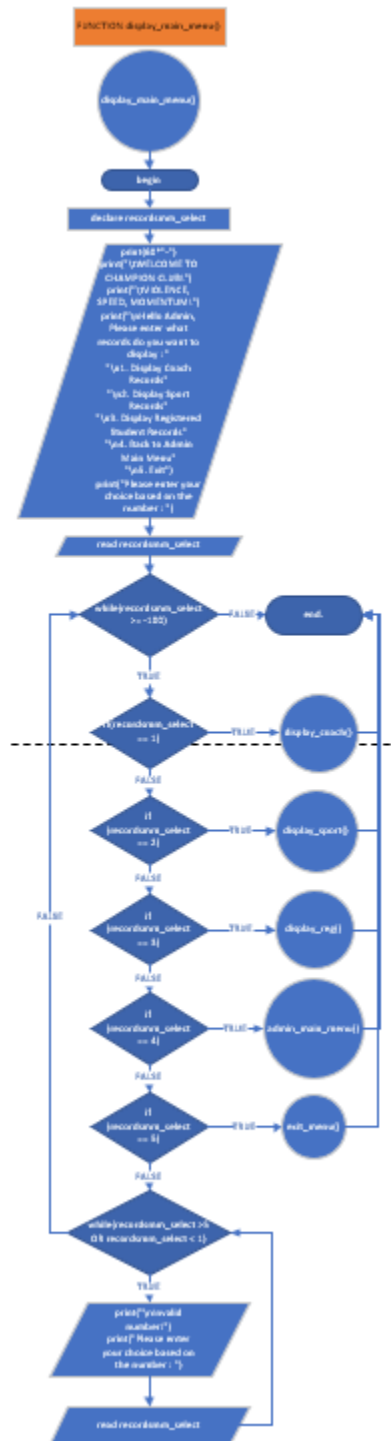




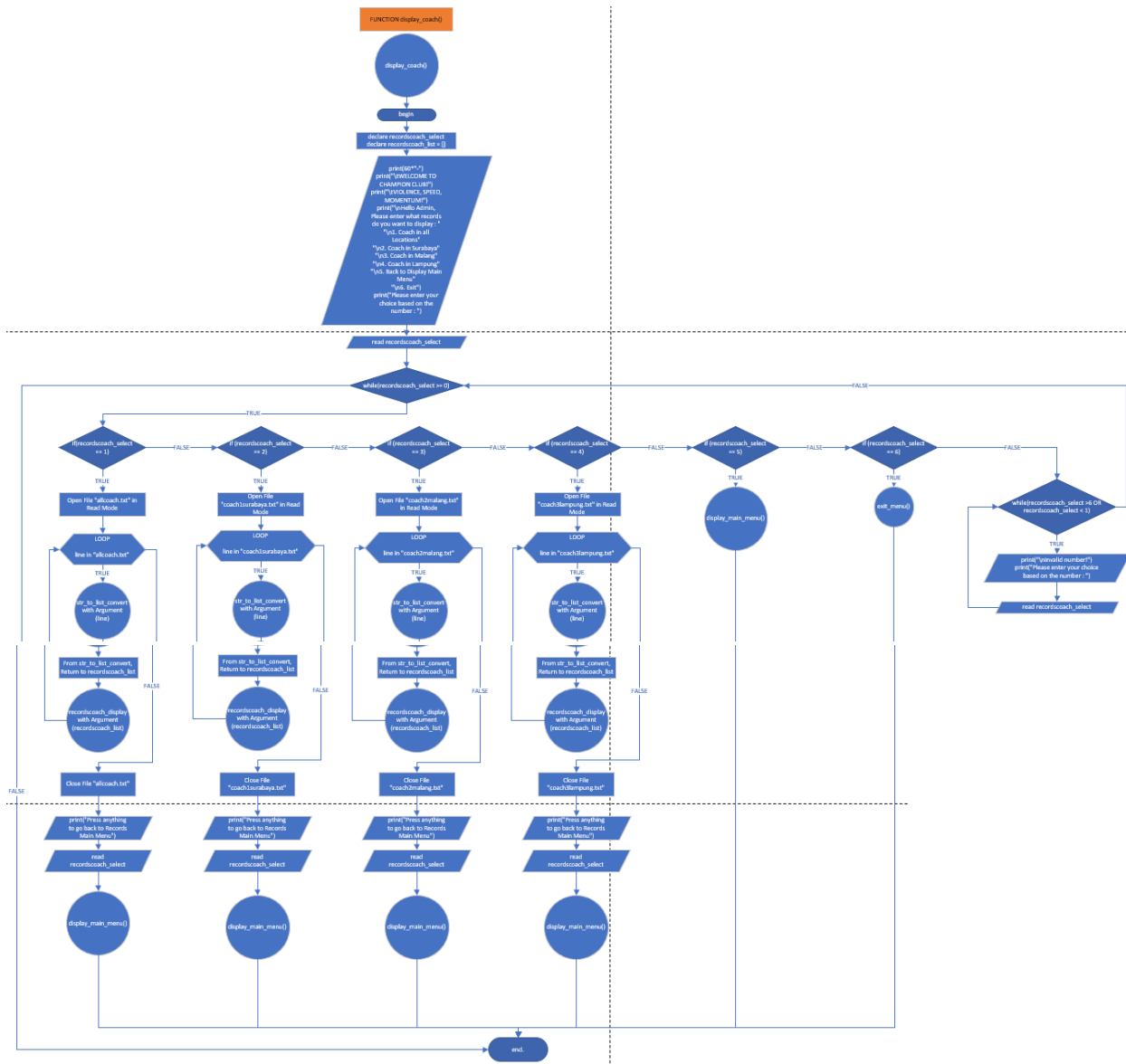




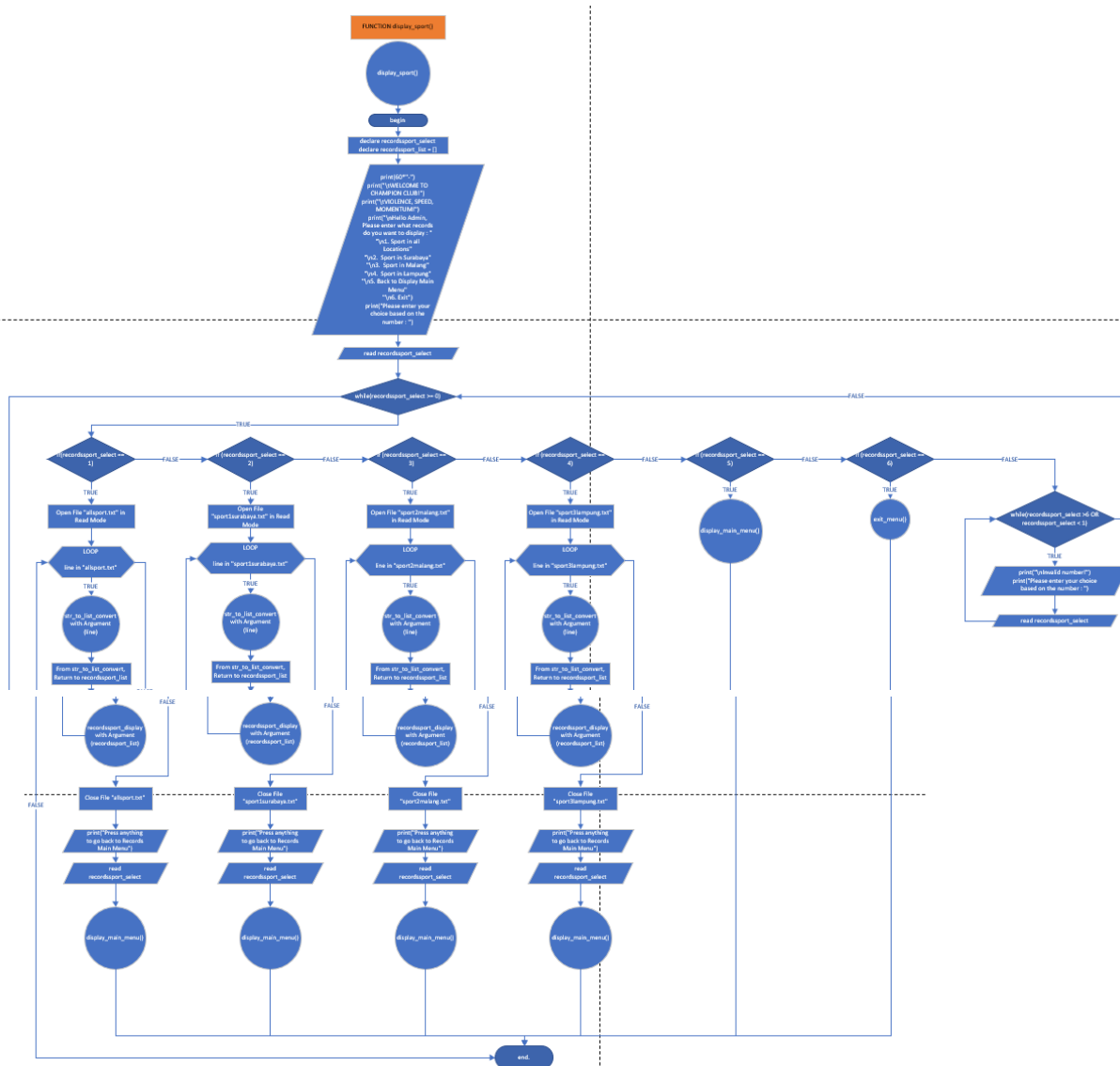
9. Display Main Menu



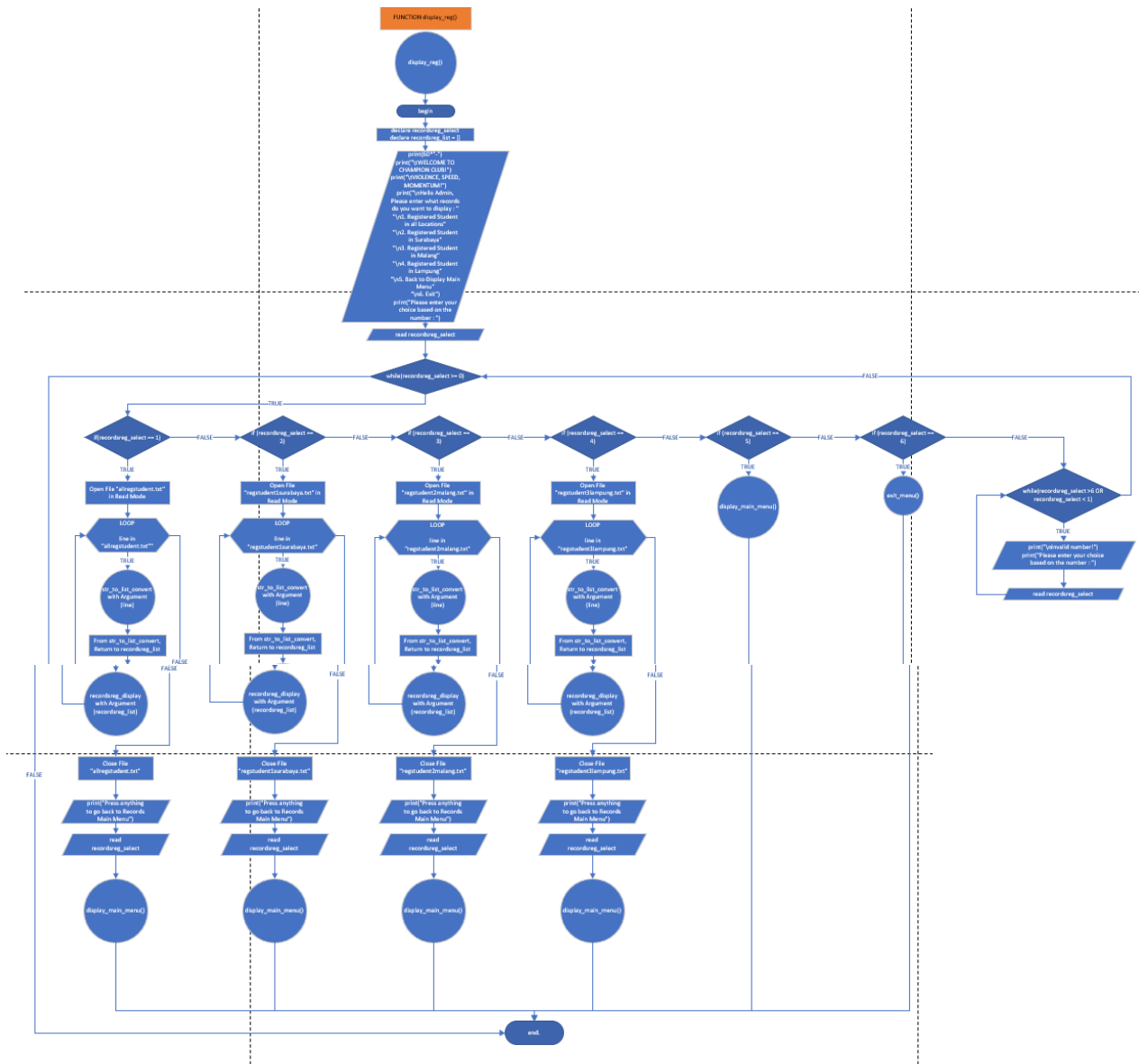
10. Display Records of Coach



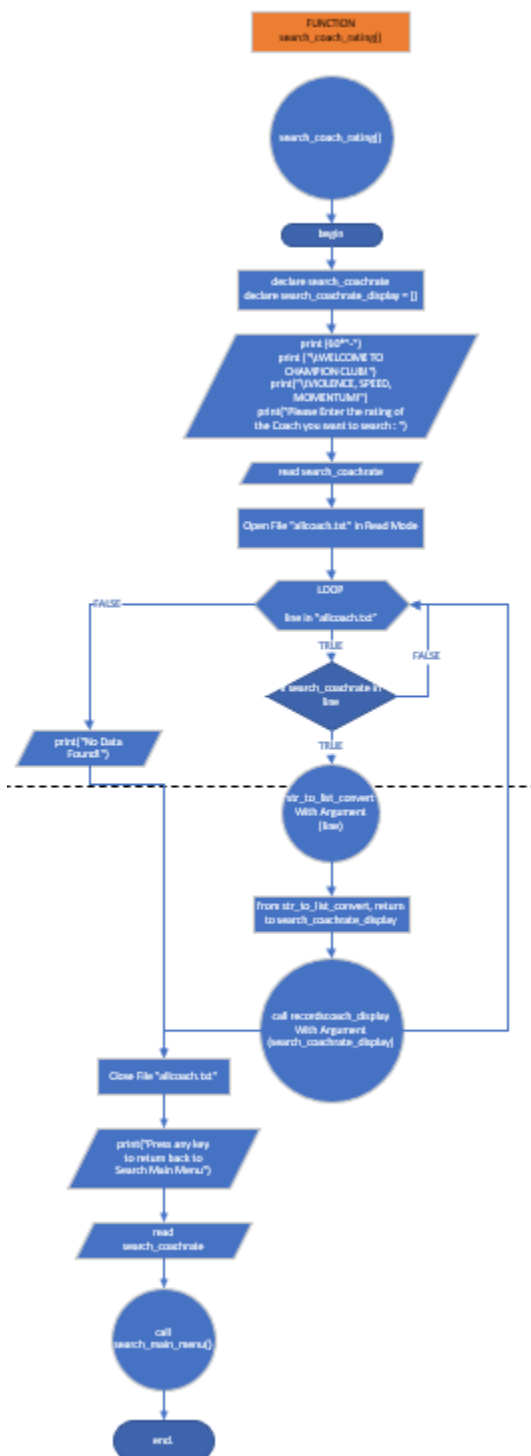
11. Display Records of Sport



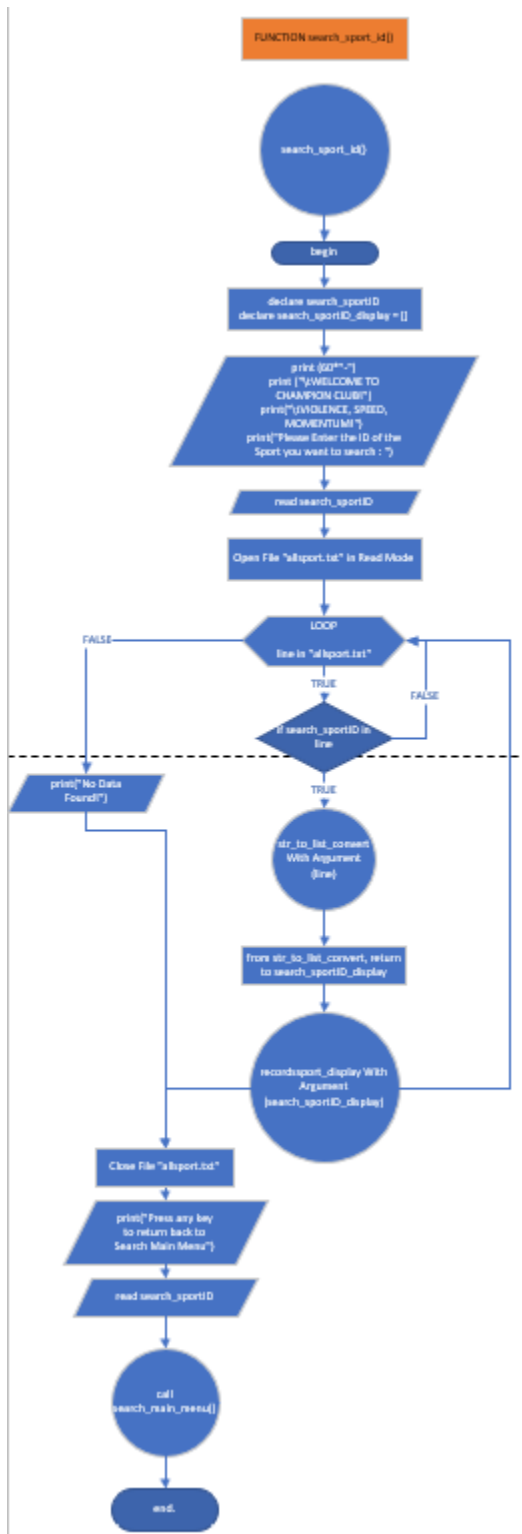
12. Display Records of Registered Student



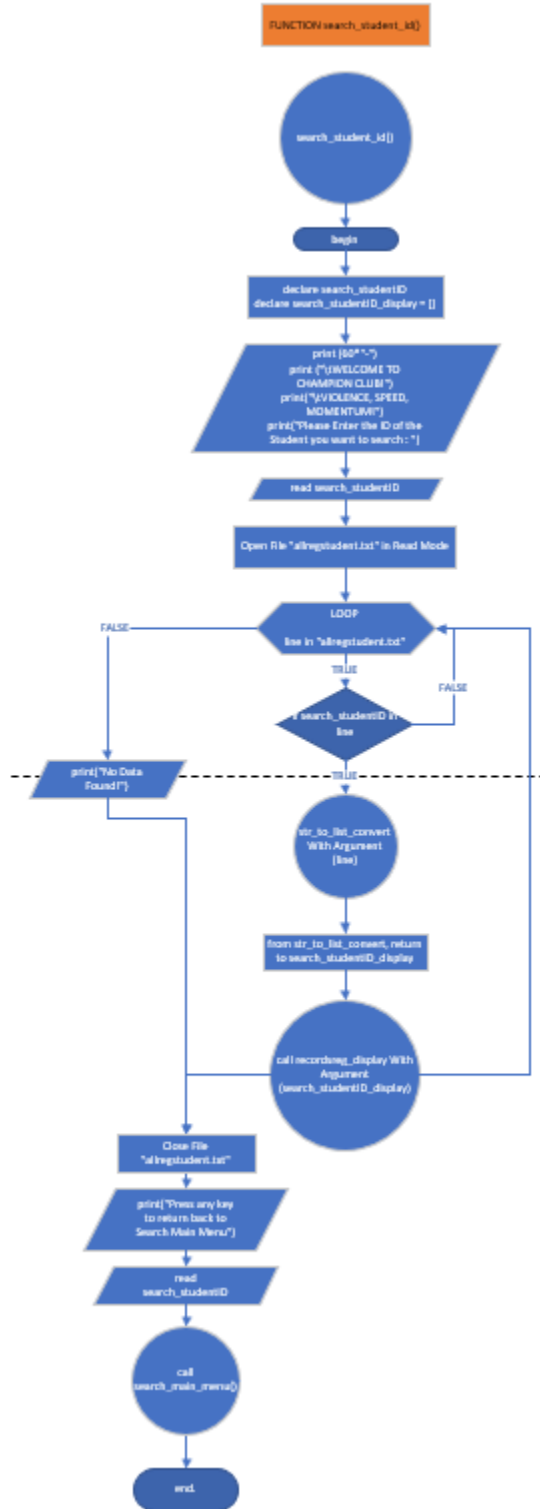
15. Search Coach by Coach Rating



16. Search Sport by Sport ID



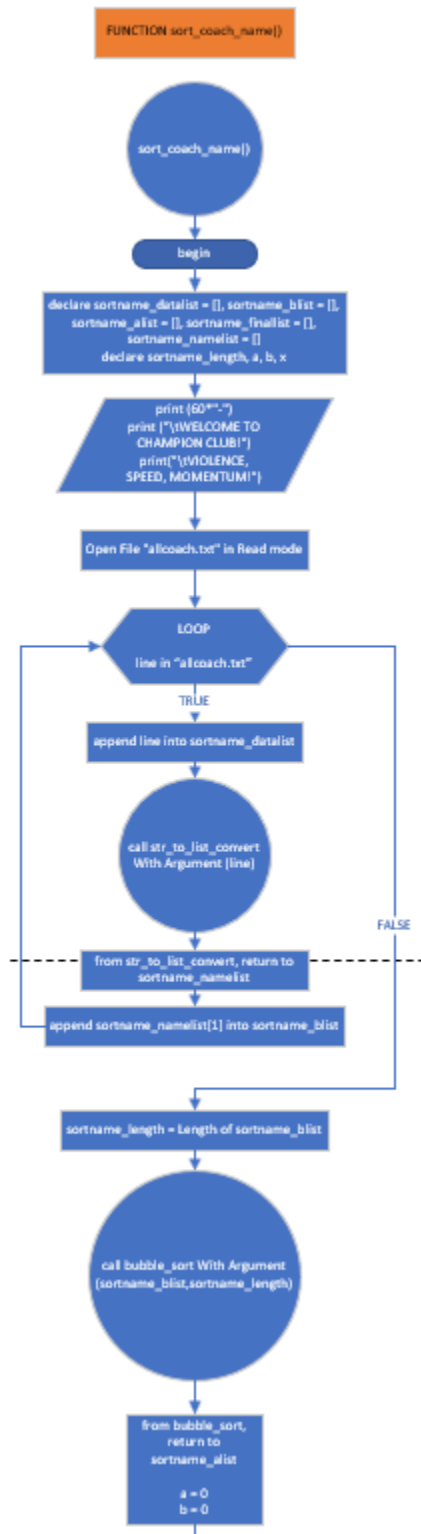
17. Search Student by Student ID

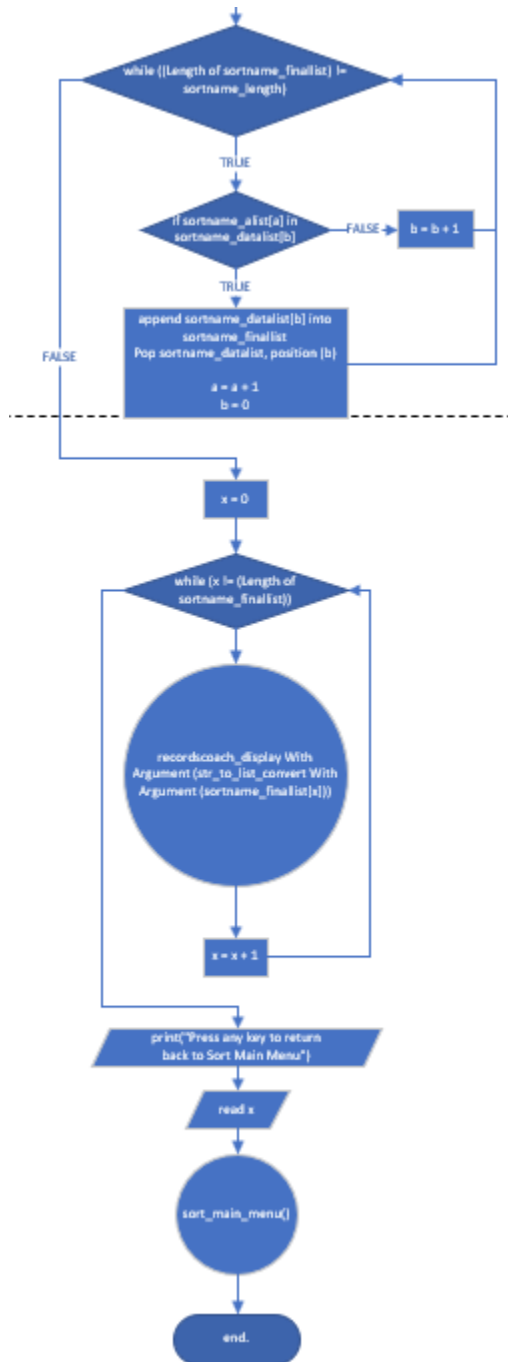


18. Sort Main Menu

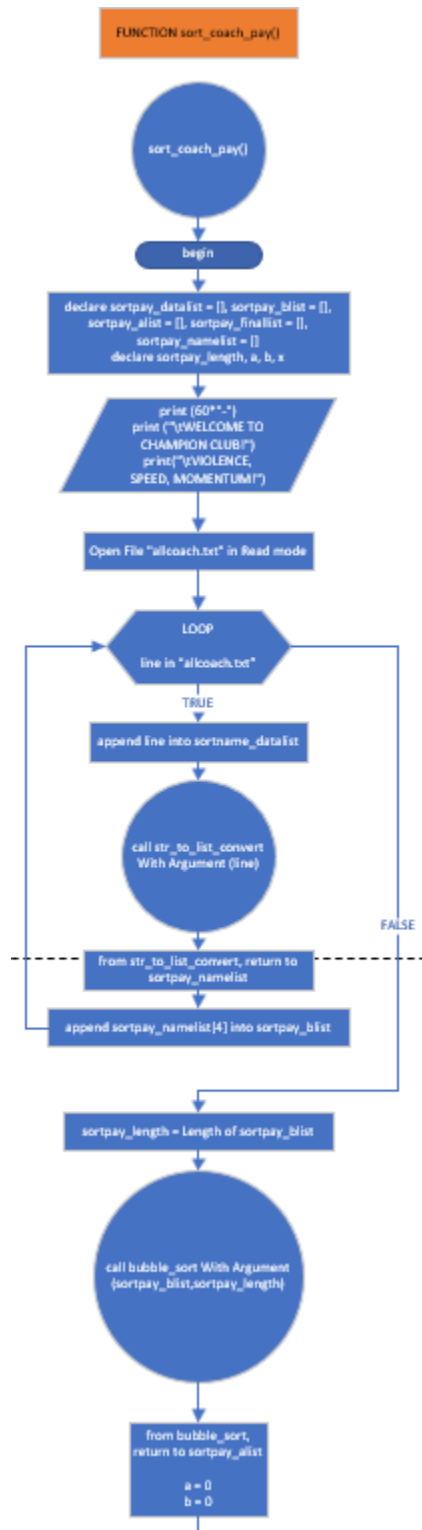


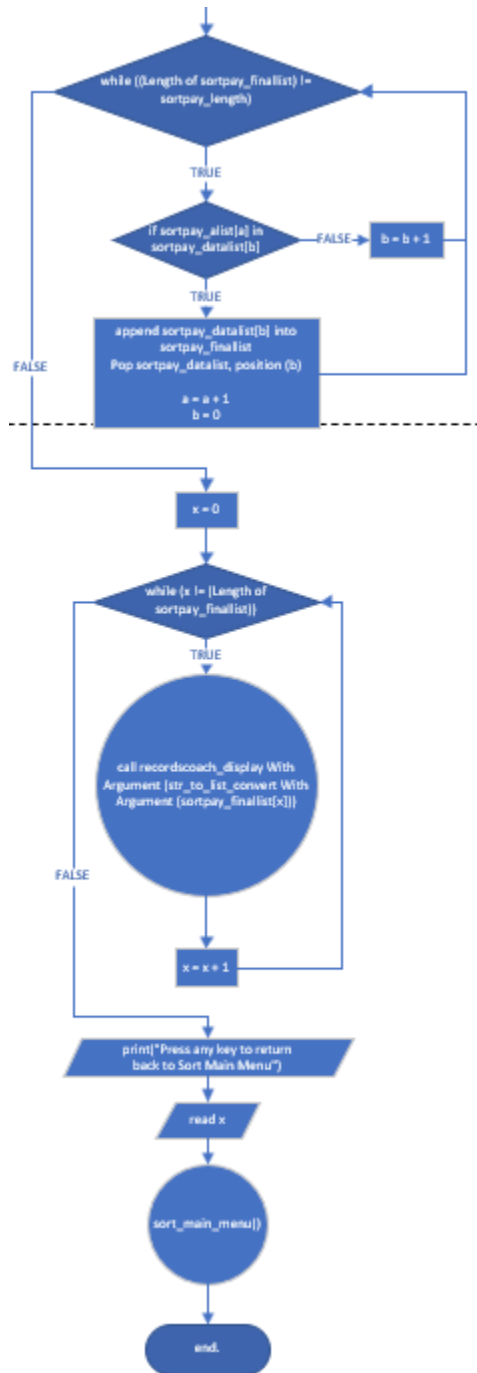
19. Sort Coach by Name



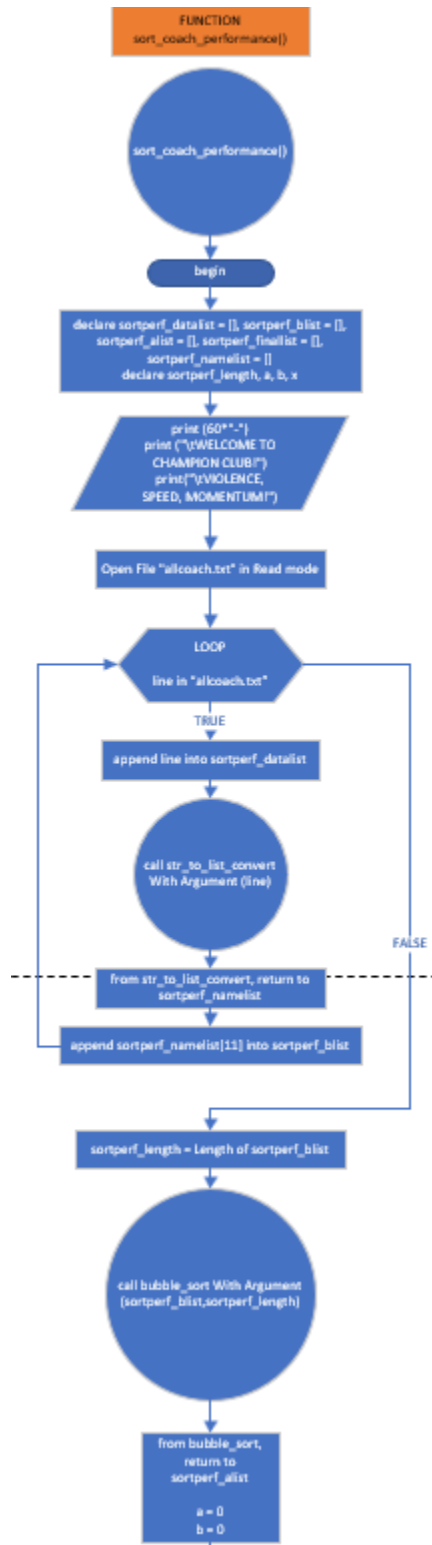


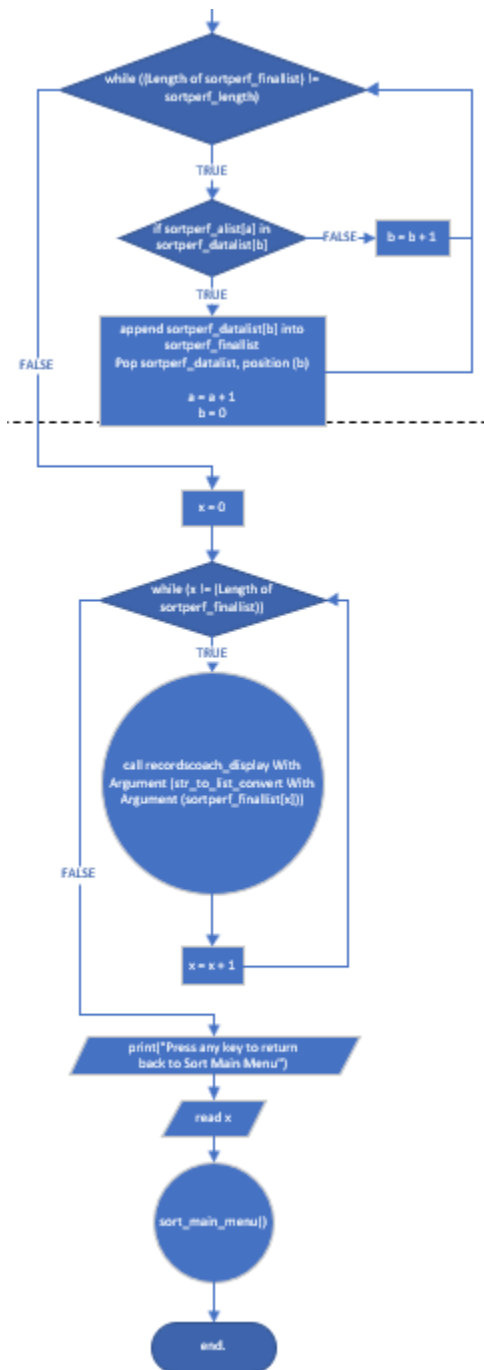
20. Sort Coach by Pay





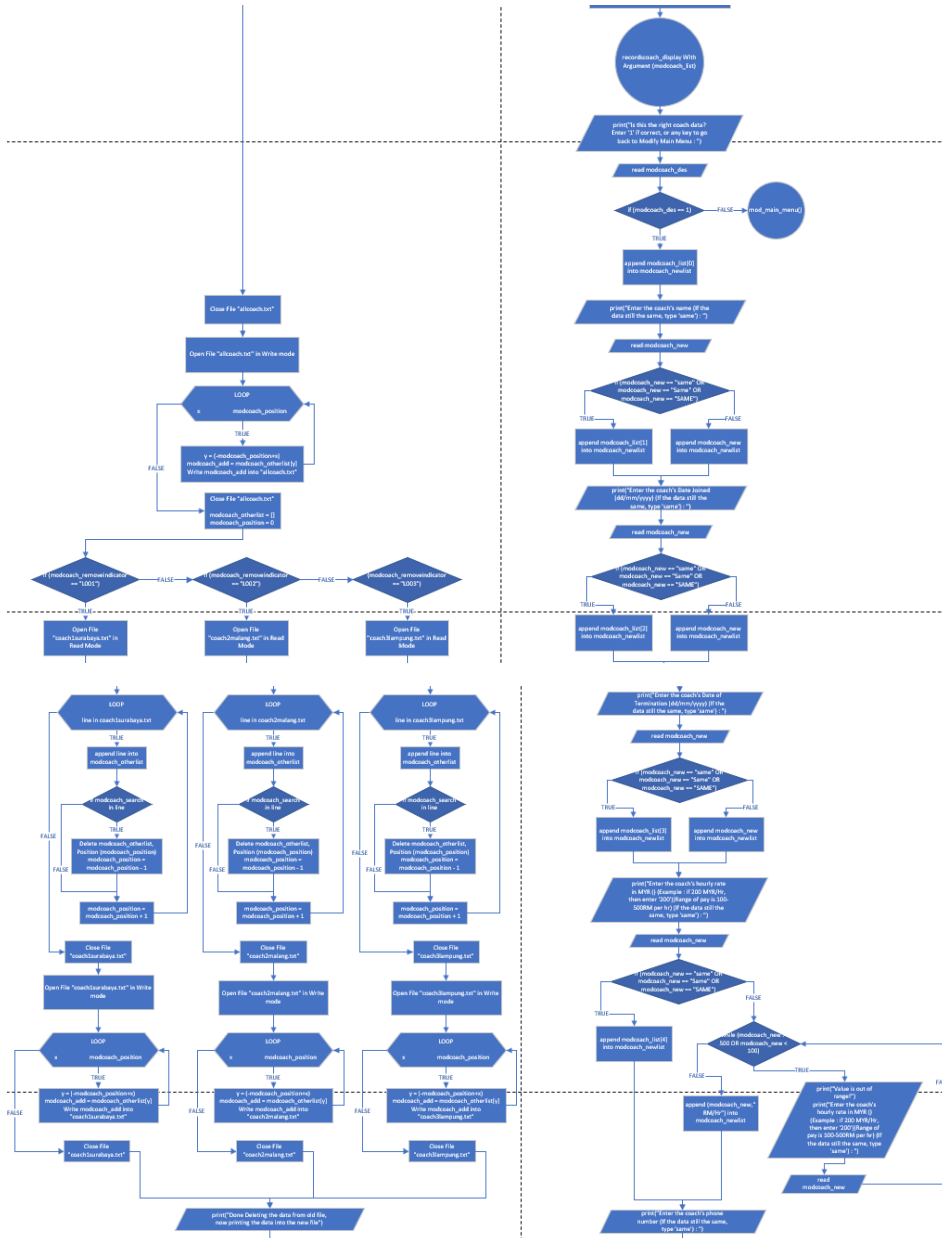
21. Sort Coach by Performance

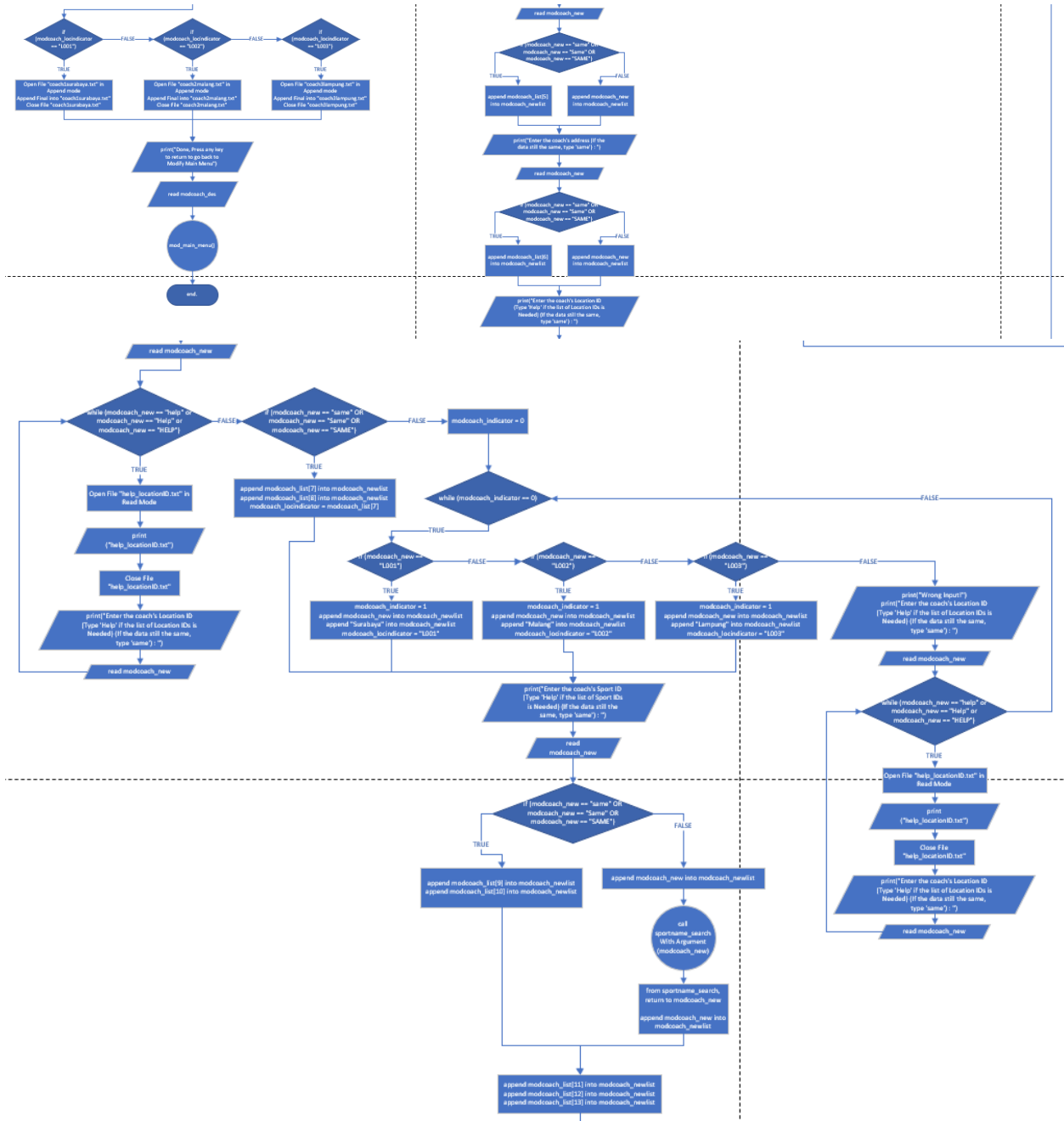


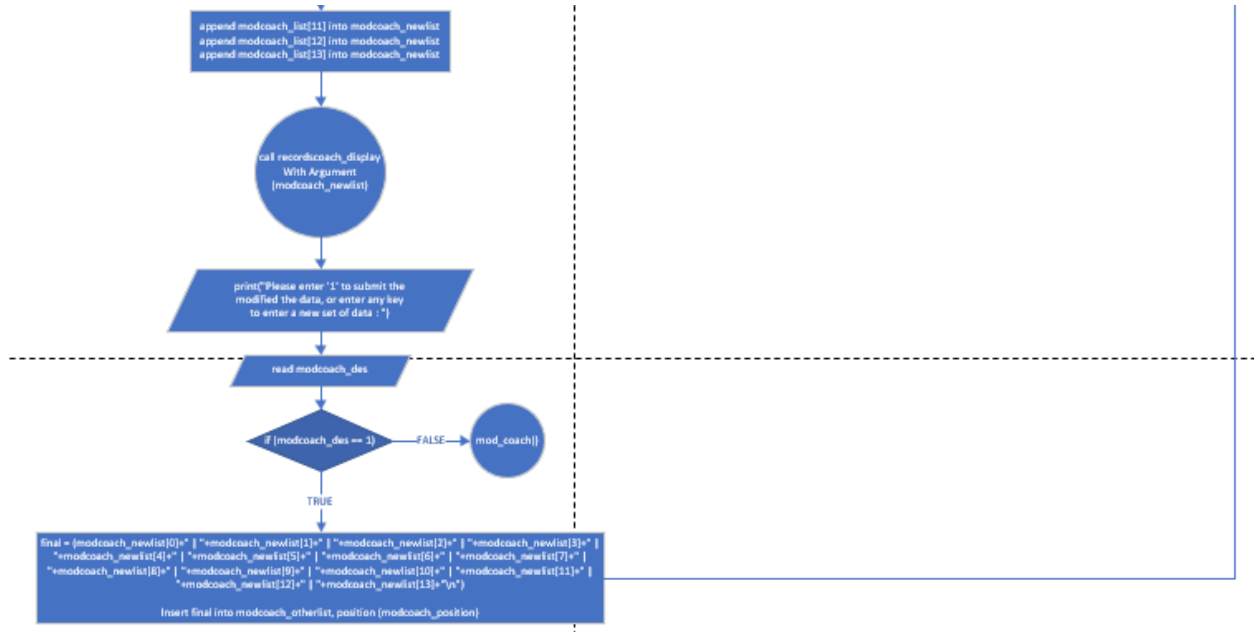


23. Modify Coach

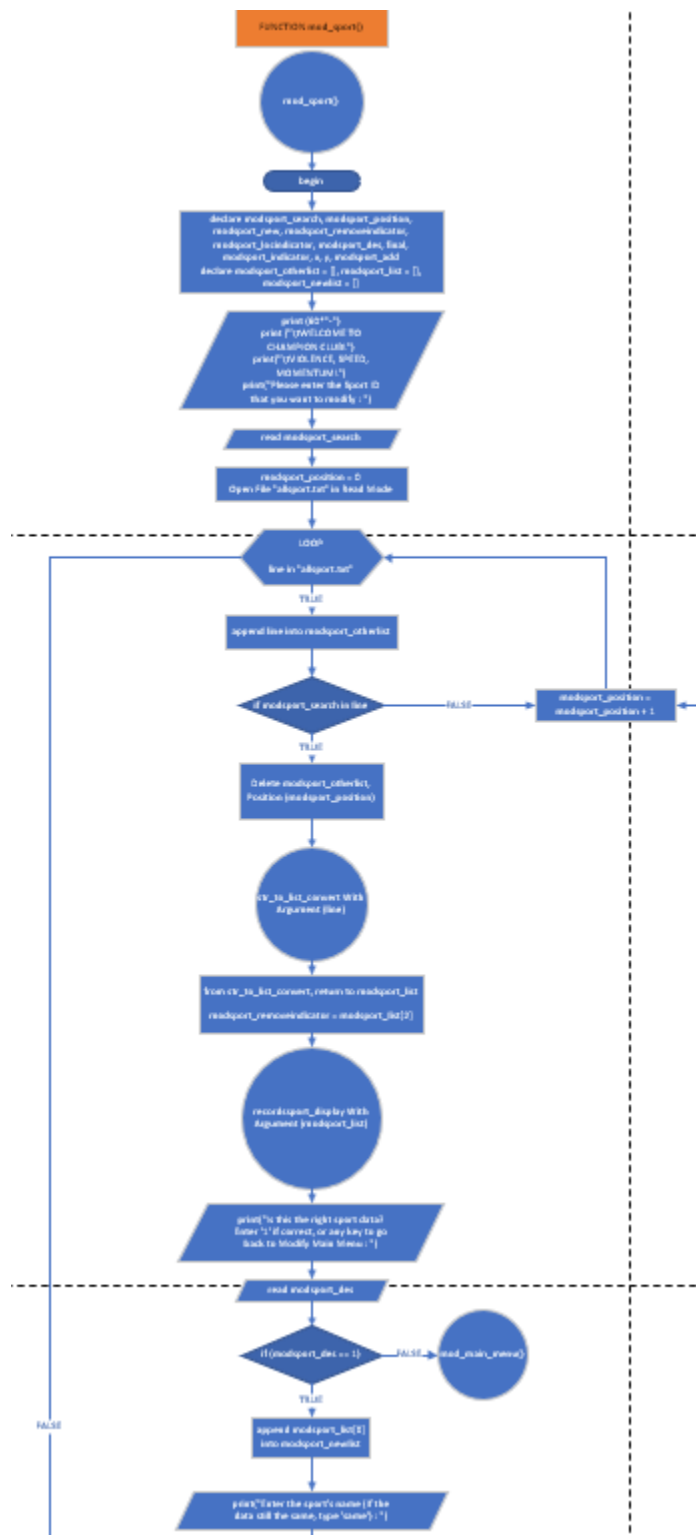




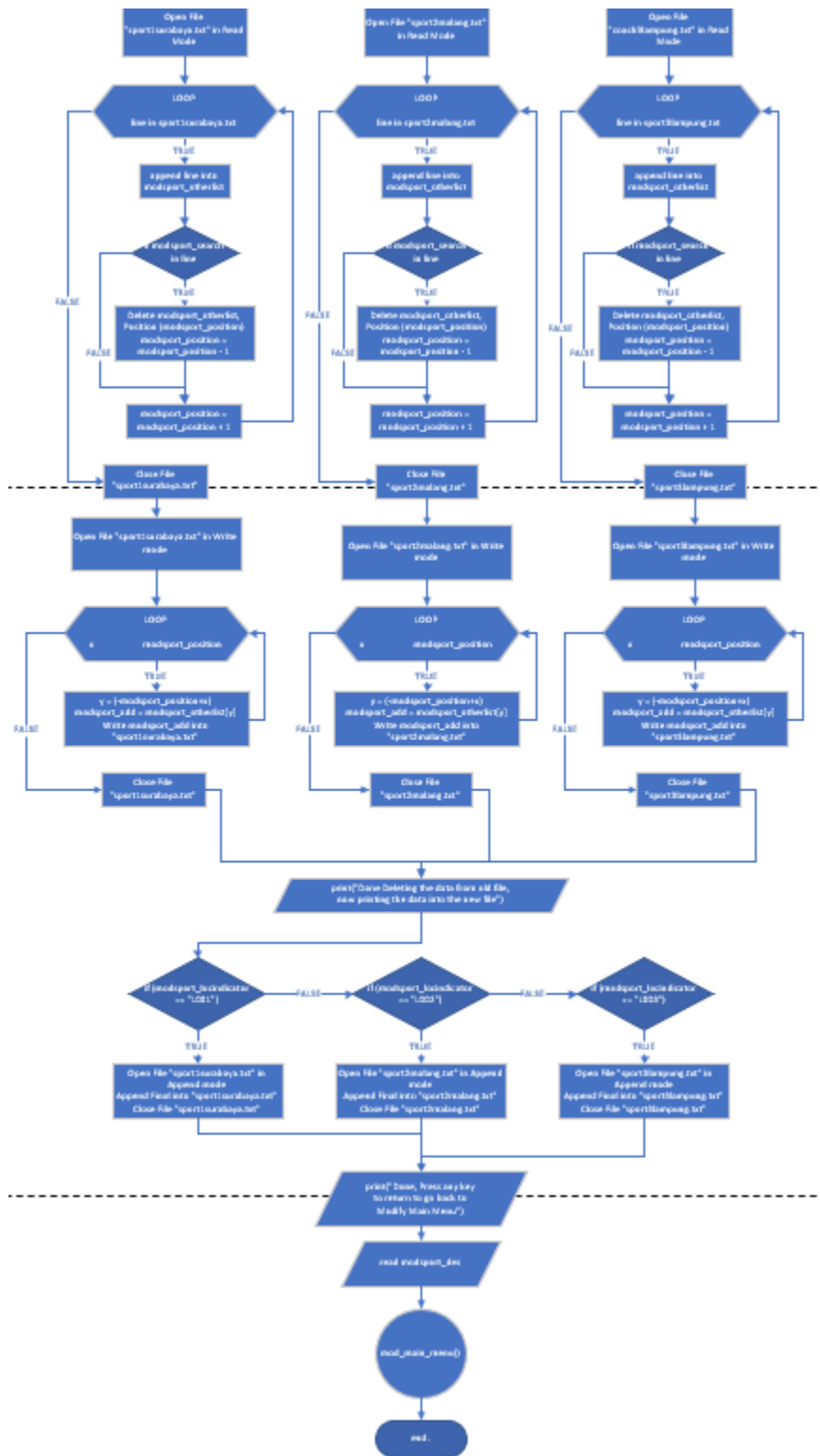




24. Modify Sport








```

graph TD
    Start([FUNCTION mod_schedule()]) --> Begin([begin])
    Begin --> Init[declare modschedule_search, modschedule_position,  
modschedule_prev, modschedule_prevmodicator,  
modschedule_to_delete, modschedule_del, final  
modschedule_to_delete, x, y, modschedule_and  
declare modschedule_to_delete = [], modschedule_list = [],  
modschedule_prevlist = []]
    Init --> Print[print get("y")  
print "Type location to  
schedule club"  
print "press if not, press  
modindicator"  
print "press enter the  
location id that you want to  
modify"]
    Print --> ReadSearch[/read modschedule_search/]
    ReadSearch --> SetPos[modschedule_position = 0  
Open file "shpmodschedule.txt" in Read Mode]
    SetPos --> Loop{LOOP}
    Loop --> IsFile{file is "shpmodschedule.txt"}
    IsFile -- TRUE --> Append[append file into modschedule_prevlist]
    IsFile -- FALSE --> SetPosPlus[modschedule_position =  
modschedule_position + 1]
    Append --> IsFile
    SetPosPlus --> SetPosPlus
    IsFile -- TRUE --> Delete[delete modschedule_to_delete,  
location (modschedule_position)]
    Delete --> Convert[chr_to_int_convert With  
Argument (file)]
    Convert --> ReadList[read chr_to_int_convert data is to modschedule_list  
modschedule_prevmodicator = modschedule_list()]
    ReadList --> Display[modschedule_display With  
Argument (modschedule_pos)]
    Display --> Print2[print "is this the right club data?  
Enter "1" if correct, or any key to go  
back to Modify club menu"]
    Print2 --> ReadDel[/read modschedule_del/]
    ReadDel --> IsDel{if (modschedule_del == 1)}
    IsDel -- TRUE --> AppendDel[append modschedule_list()  
is to modschedule_prevlist]
    IsDel -- FALSE --> ReadPrev[read modschedule_prev()]
    AppendDel --> Print3[print "Enter the schedule's location id  
(Type 'help' if the list of location id is  
needed) (if the data still the same,  
type 'cancel')"]
    Print3 --> Loop
    ReadPrev --> Loop
  
```

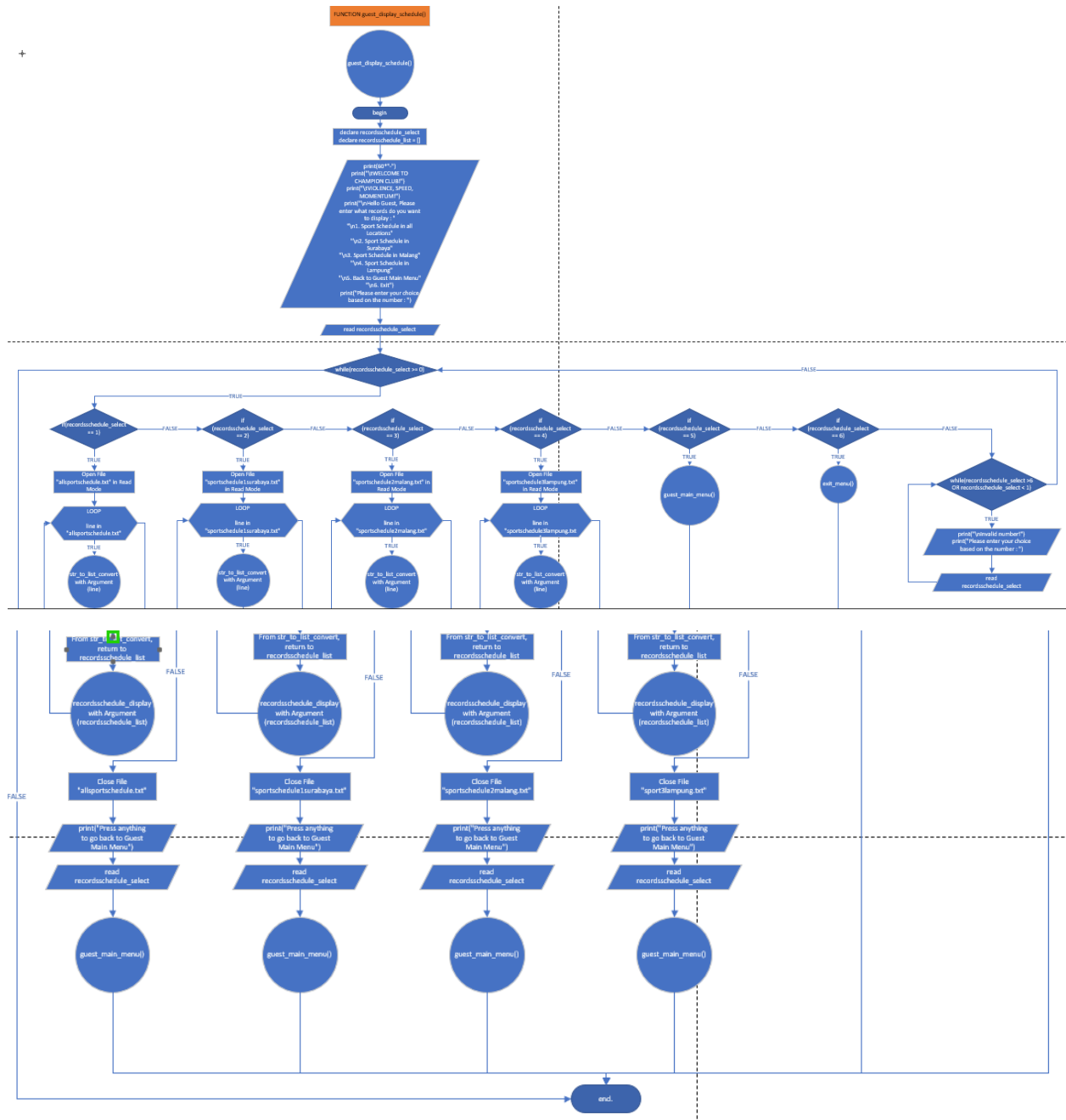




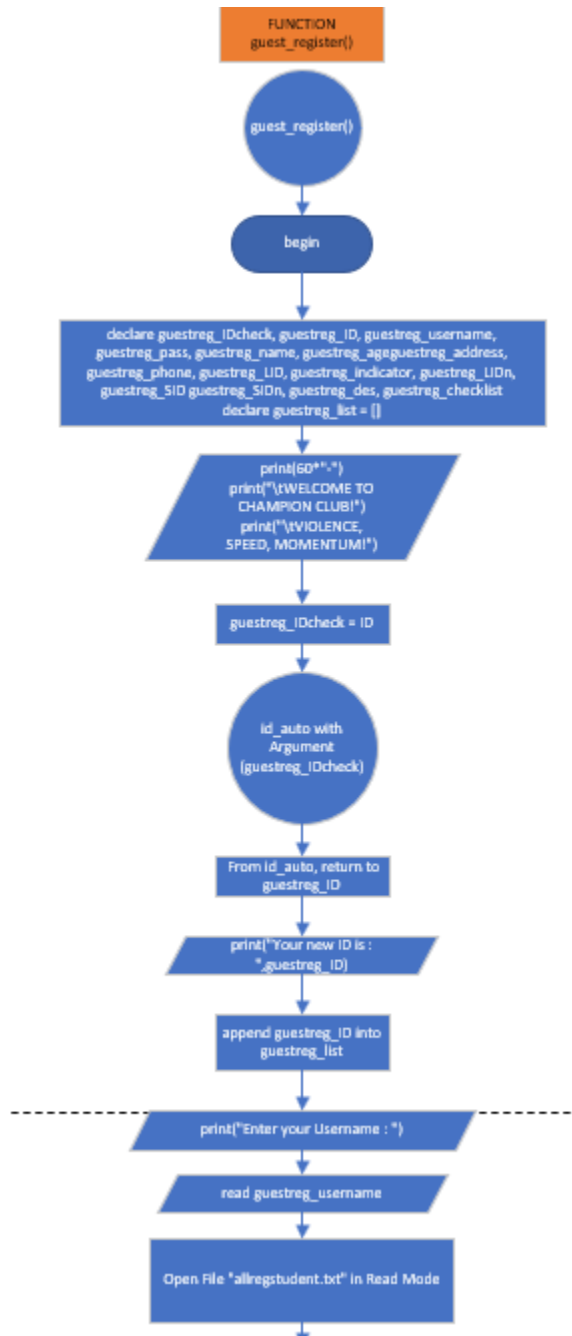
26. Guest Main Menu

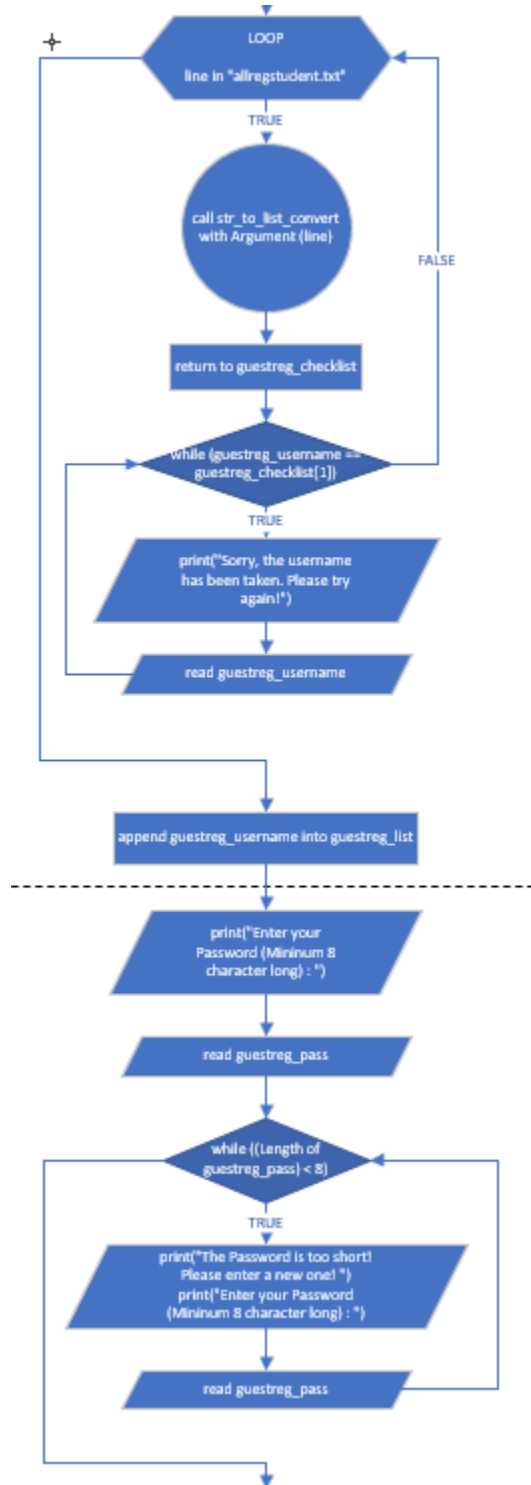


28. Guest Display Records of Schedule

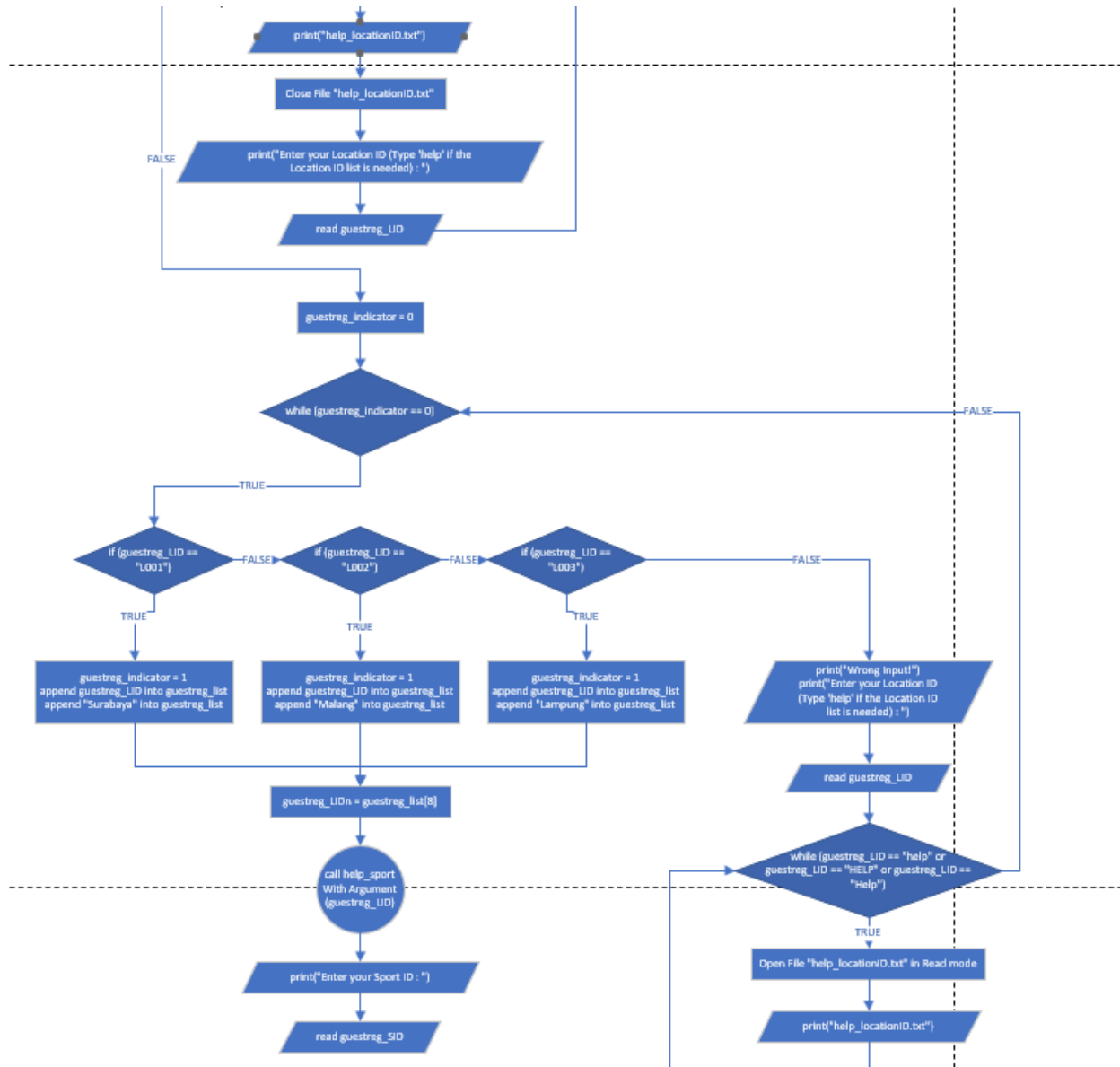


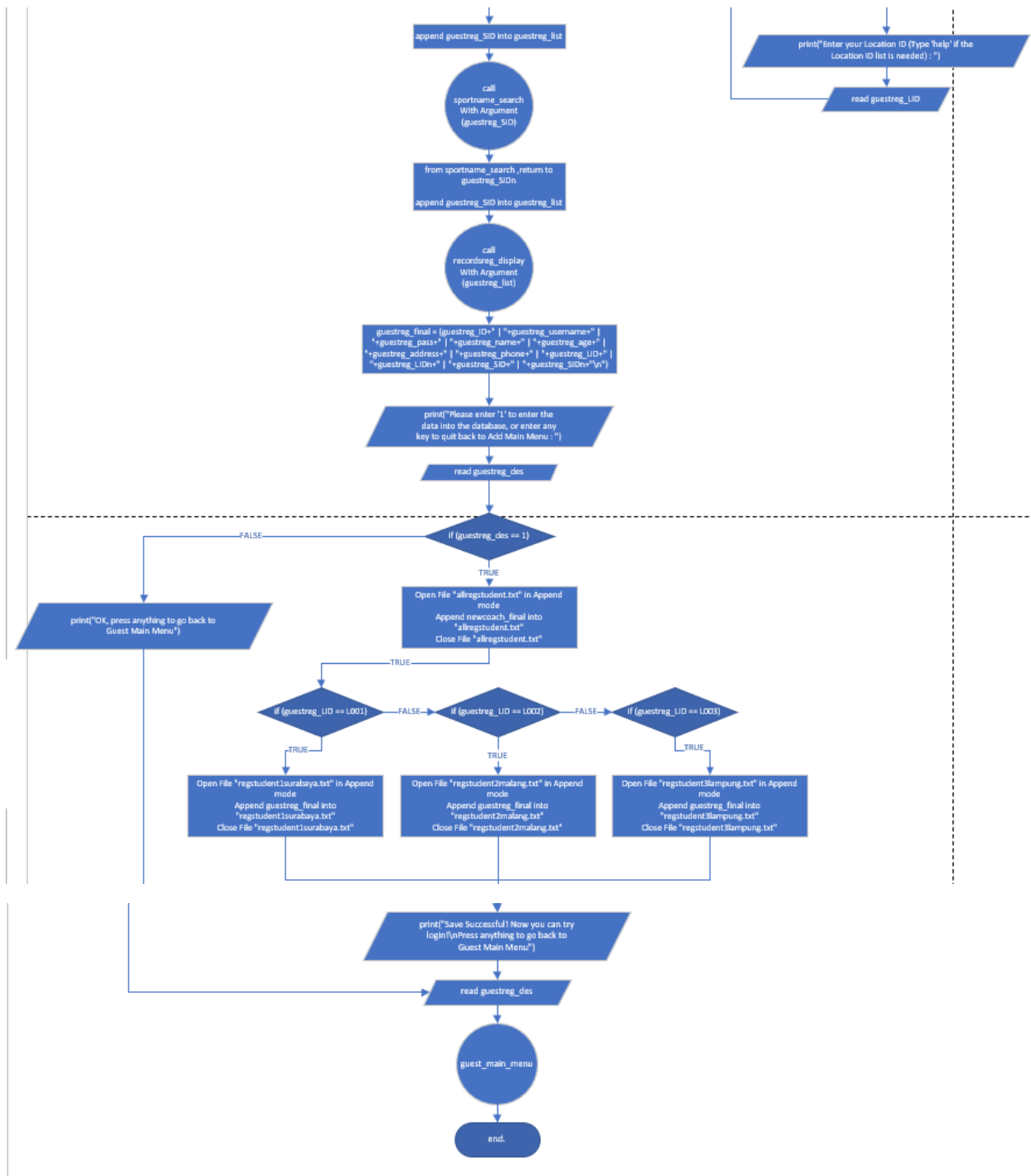
29. Guest Register



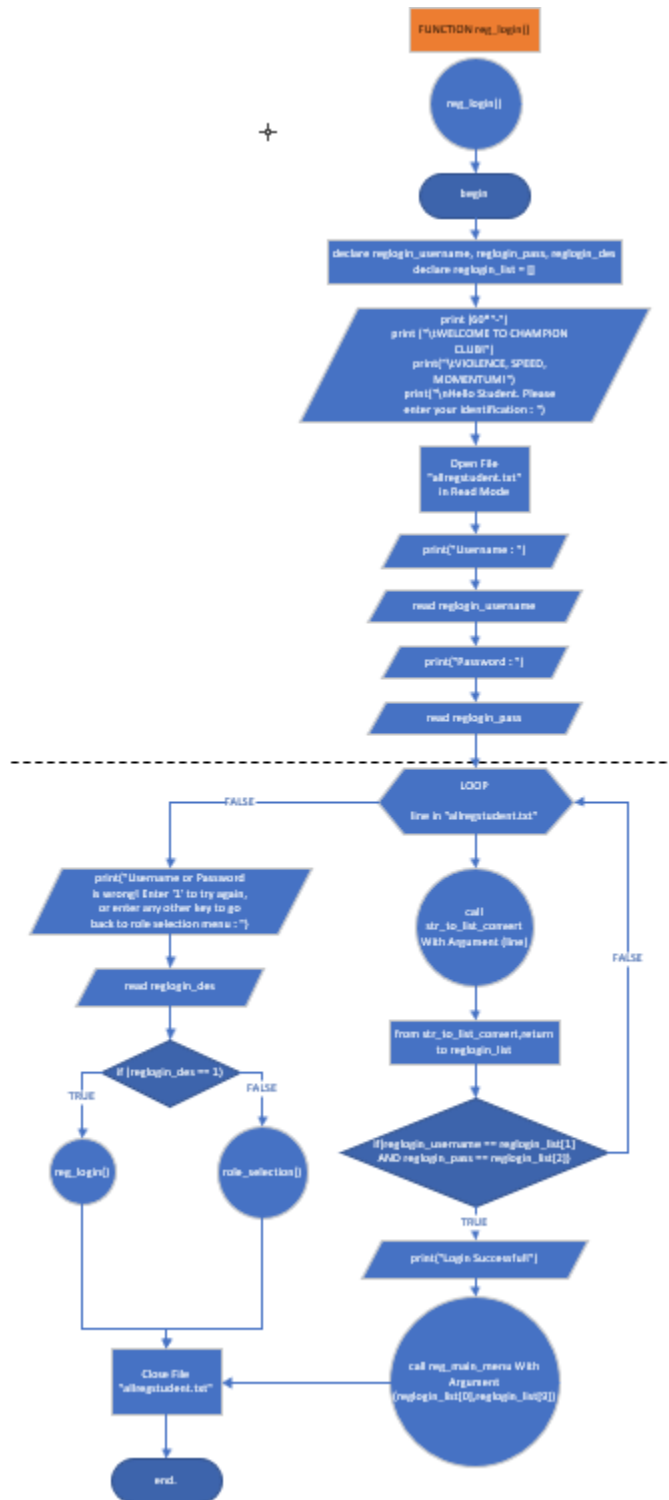




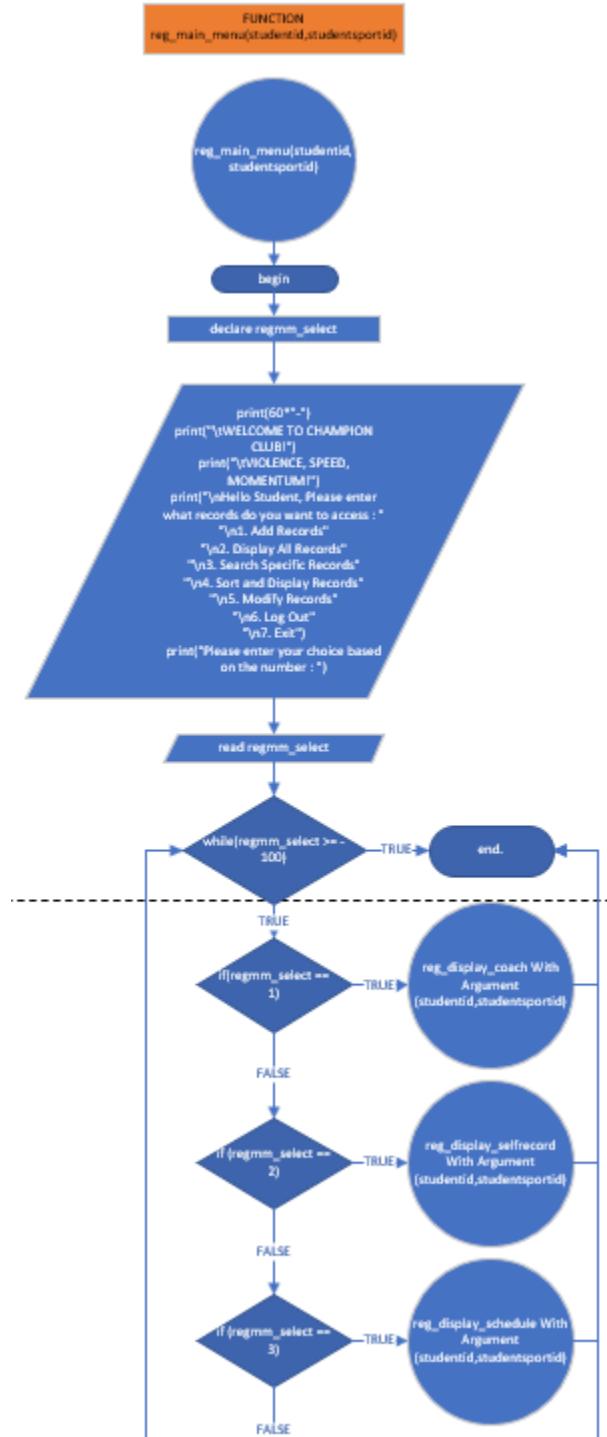


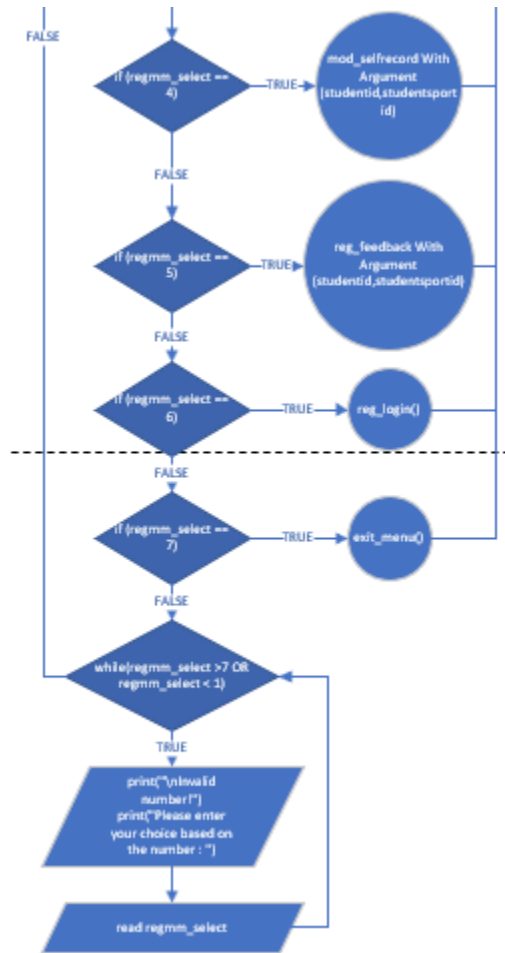


30. Student Login

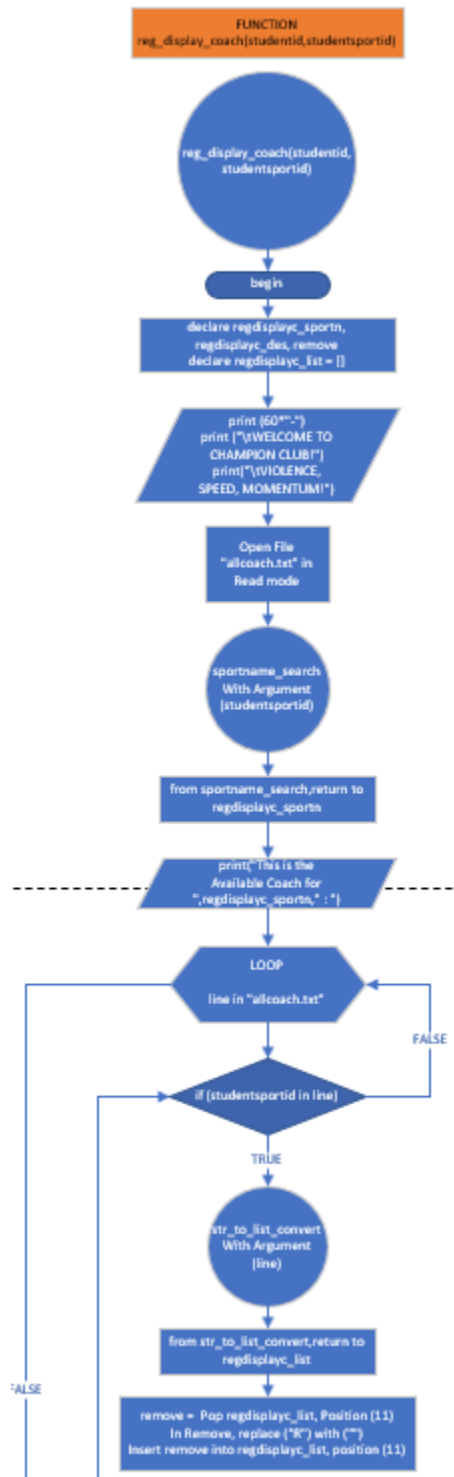


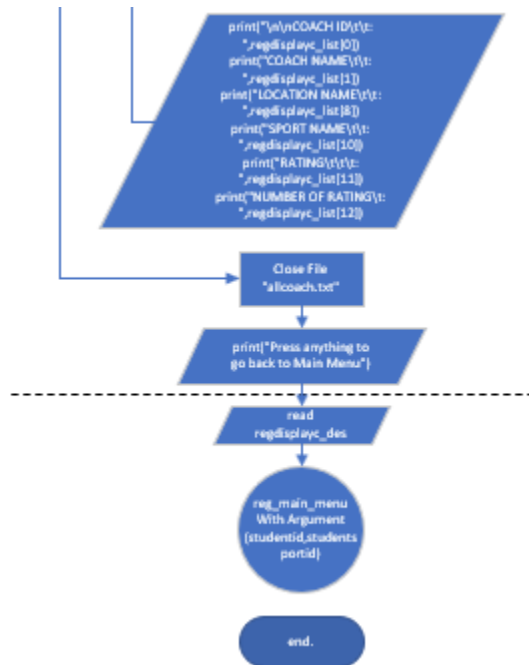
31. Student Main Menu



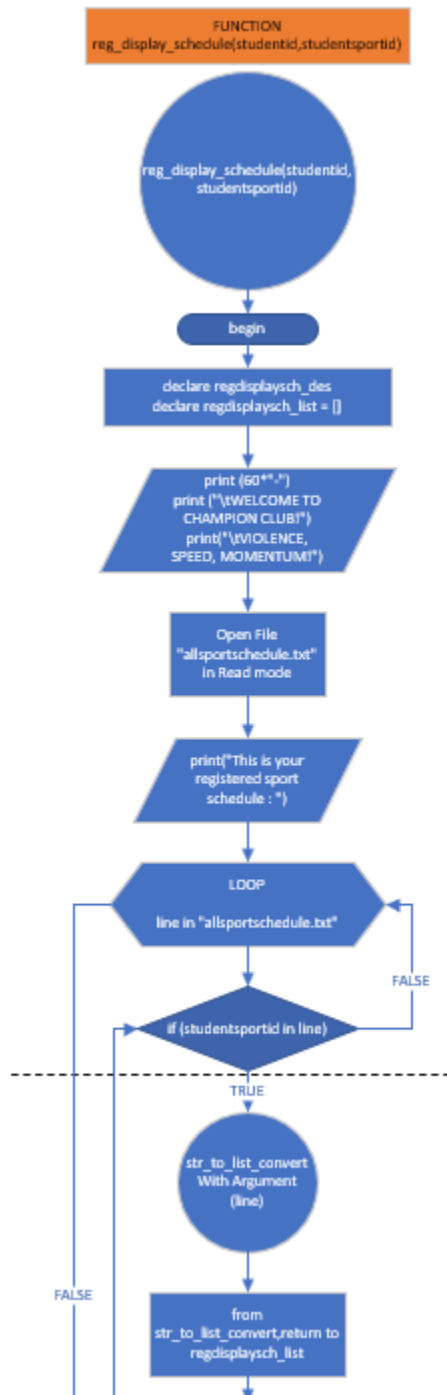


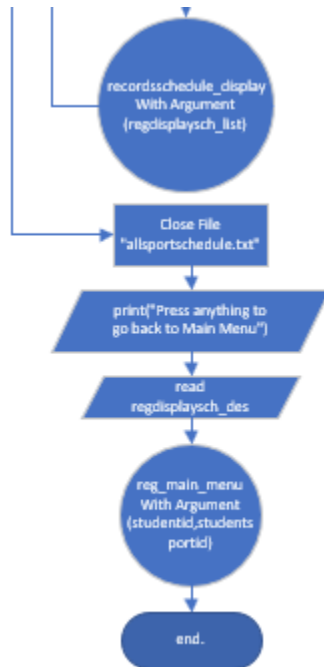
32. Student Display Records of Coach



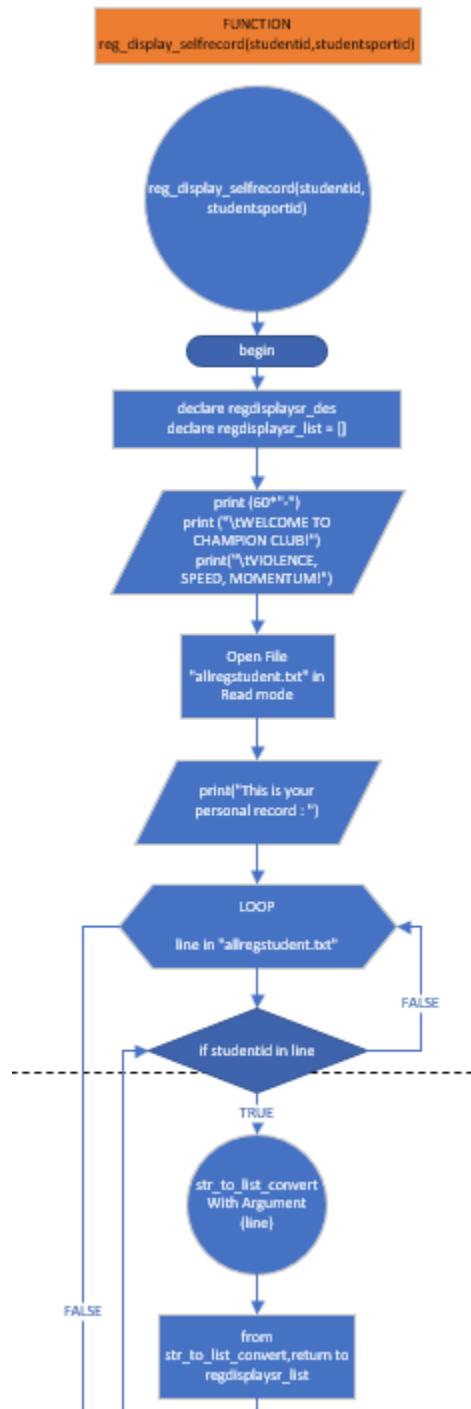


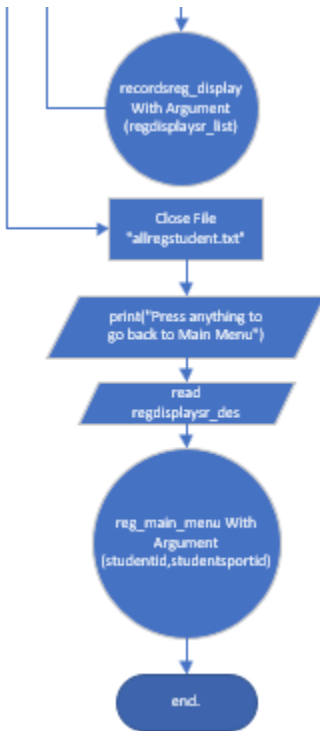
33. Student Display Records of Schedule



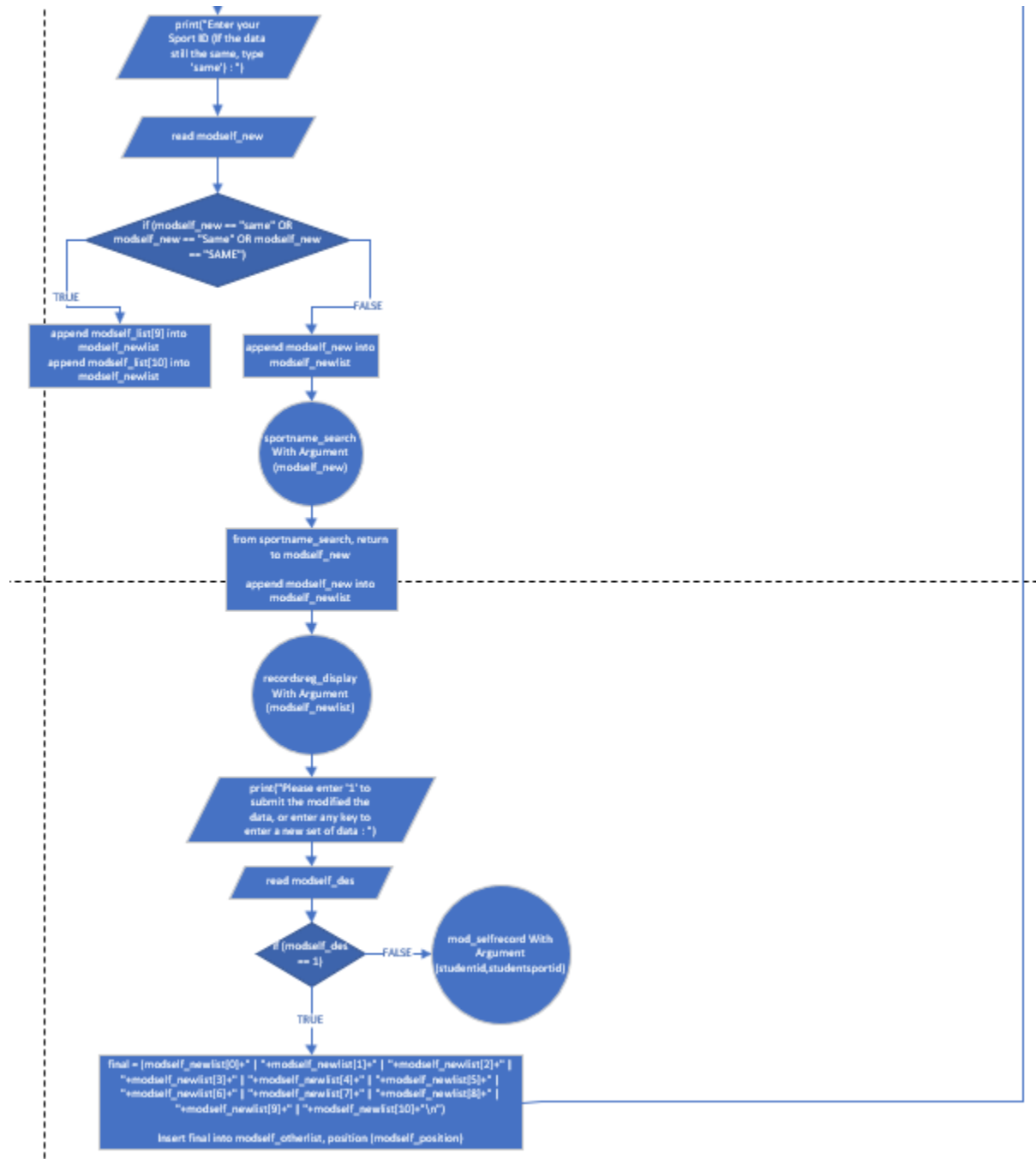


34. Student Display Self-Record

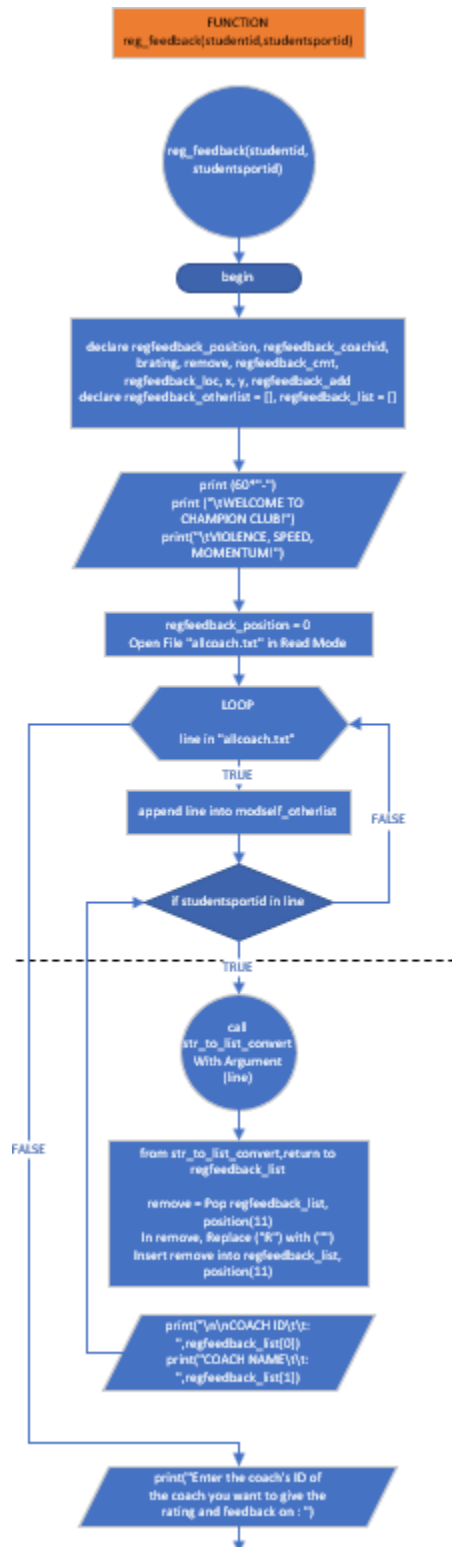








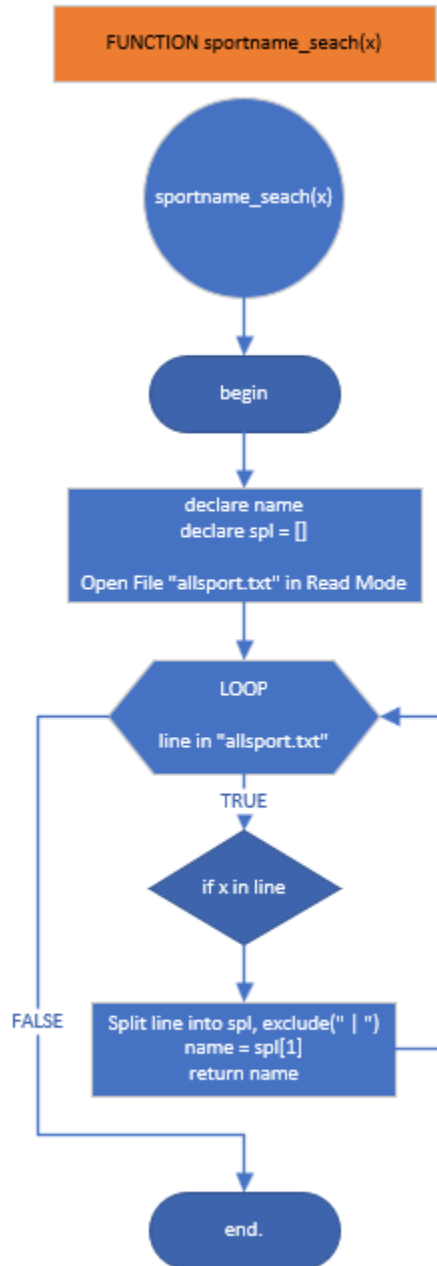
36. Student Feedback



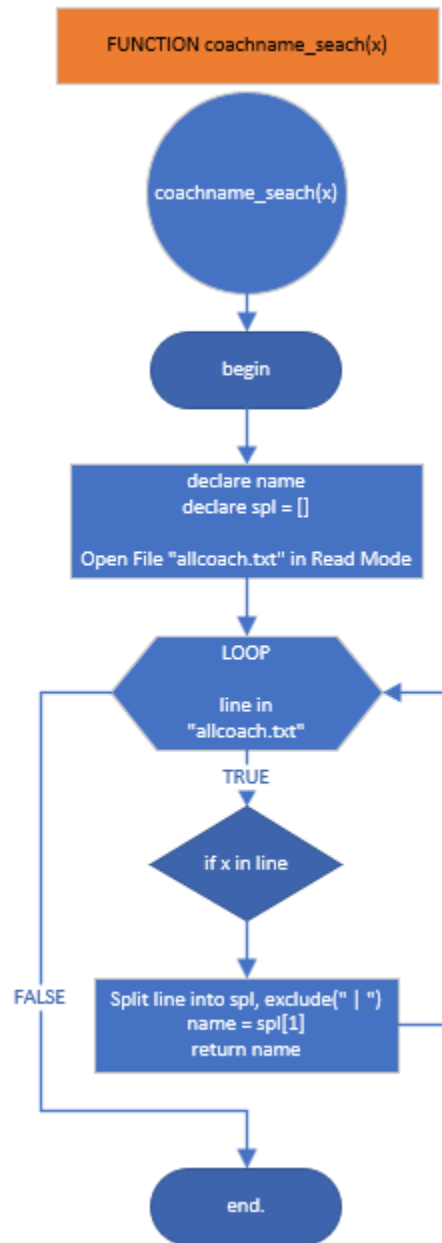




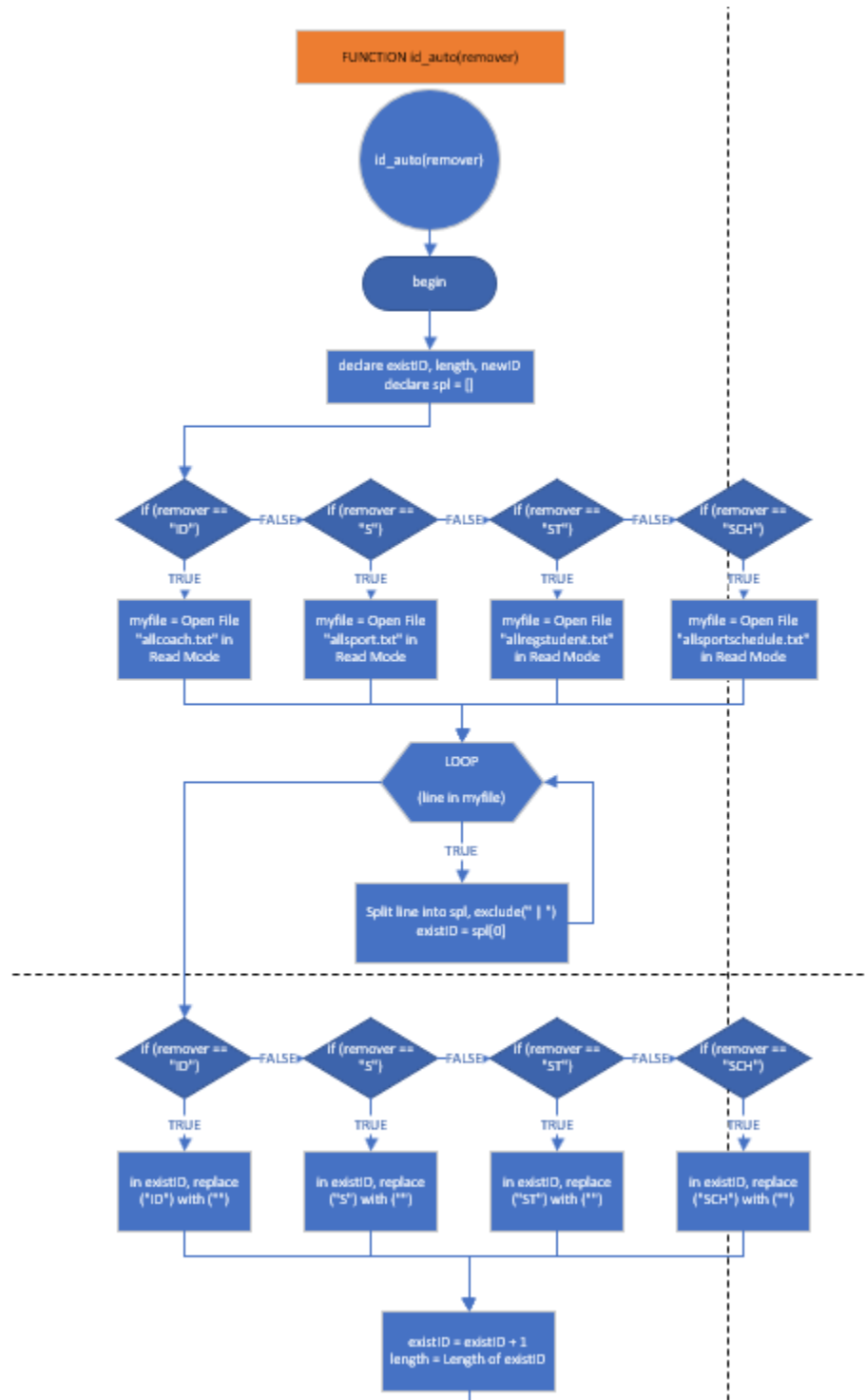
37. Sportname Search

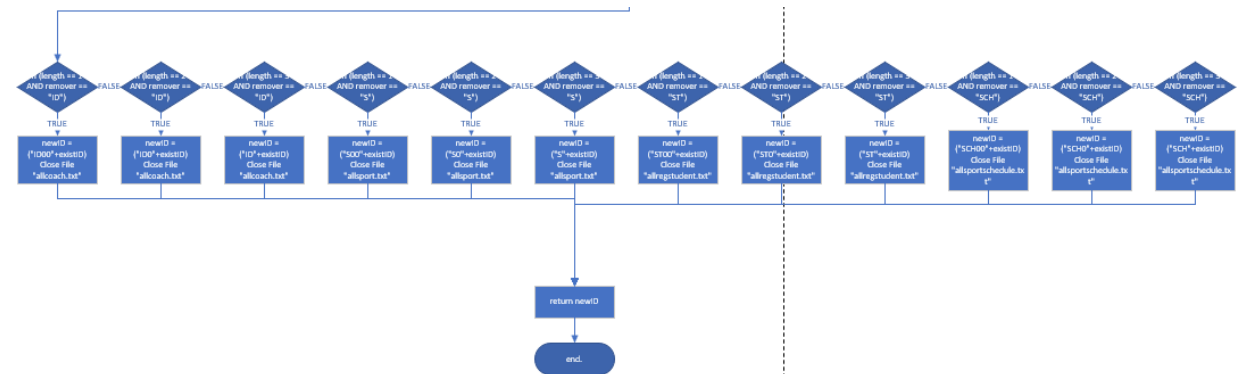


38. Coachname Search



39. Automatic ID

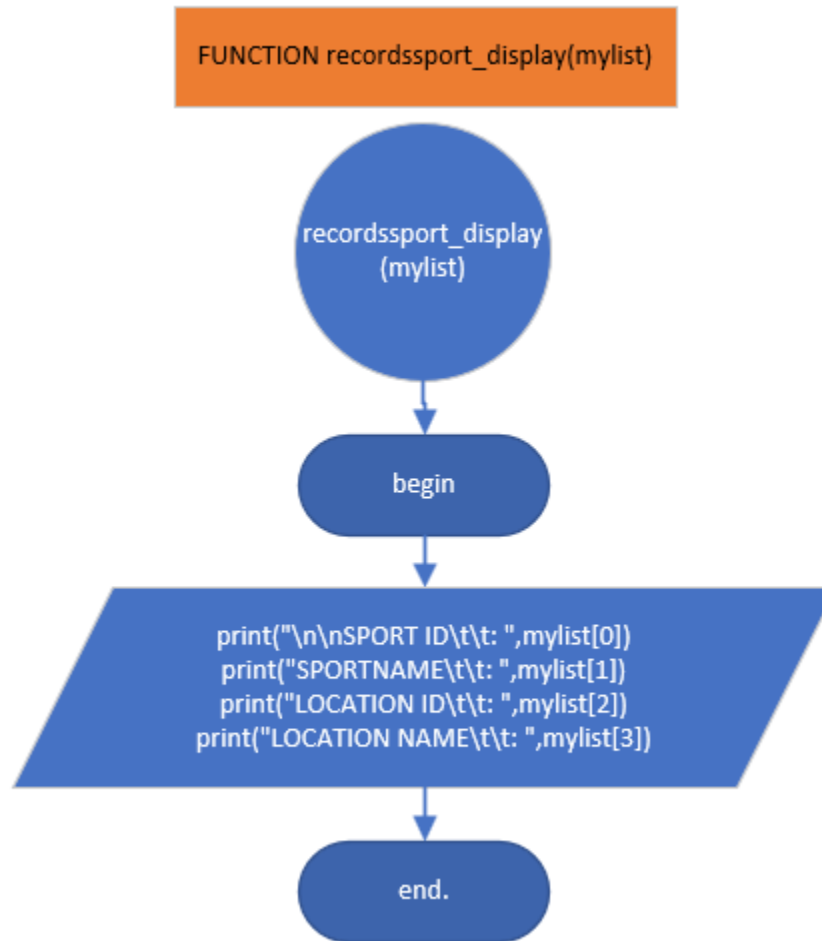




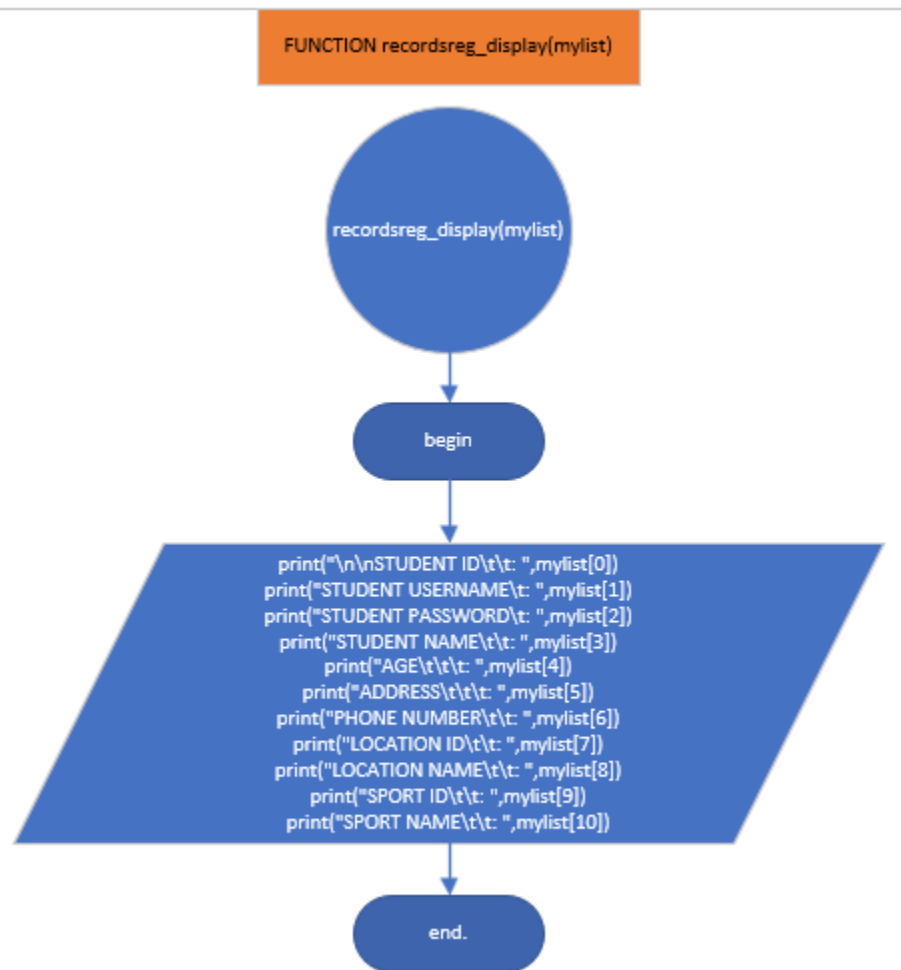
40. Recordscoach Display



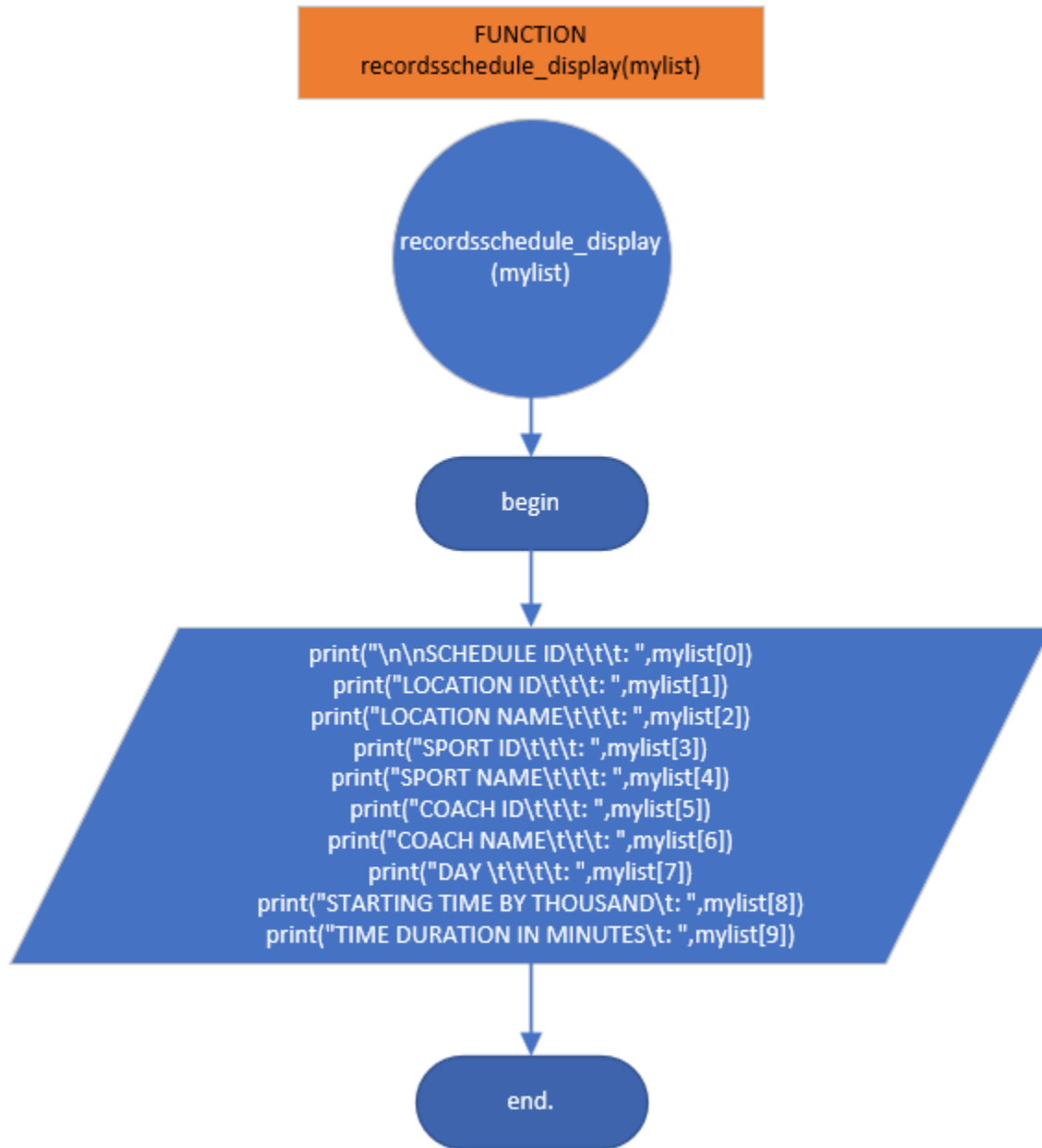
41. Recordssport Display



42. Recordsreg Display

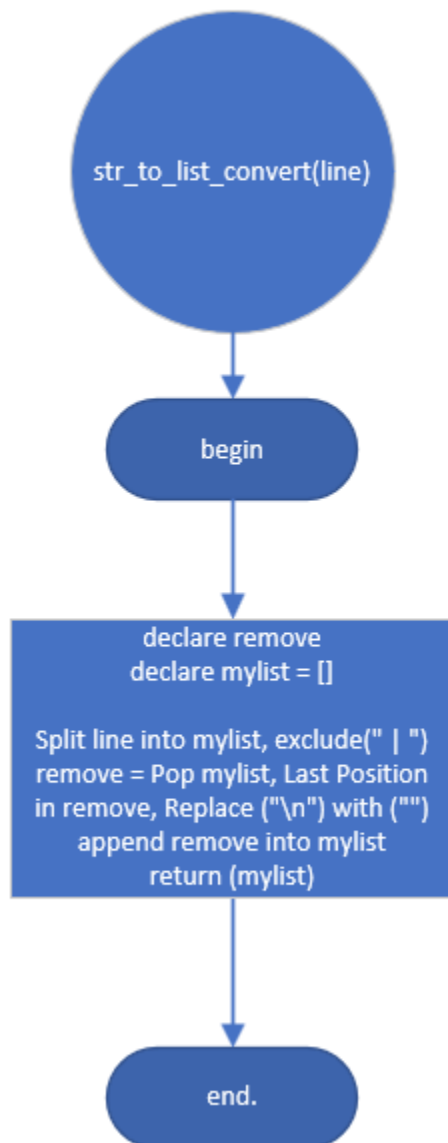


43. Recordsschedule Display

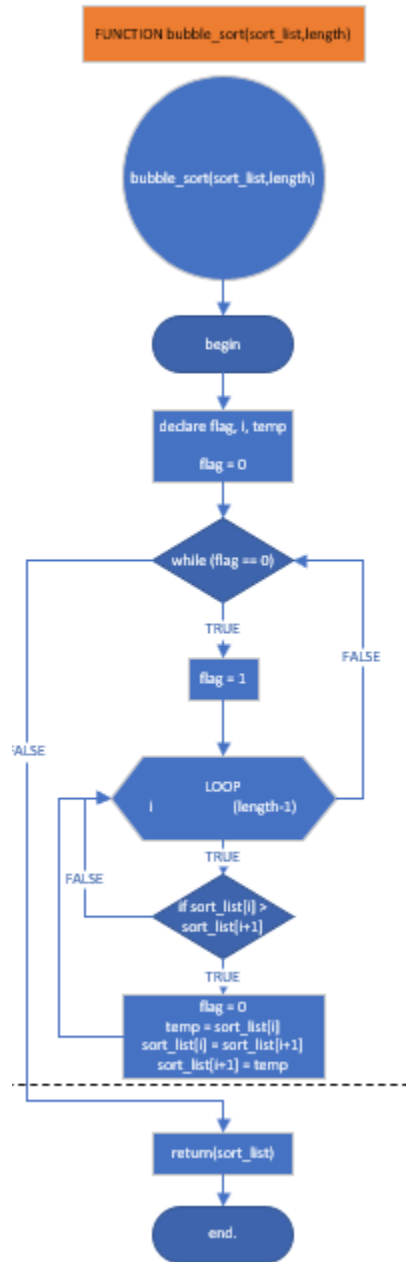


44. String to List Converter

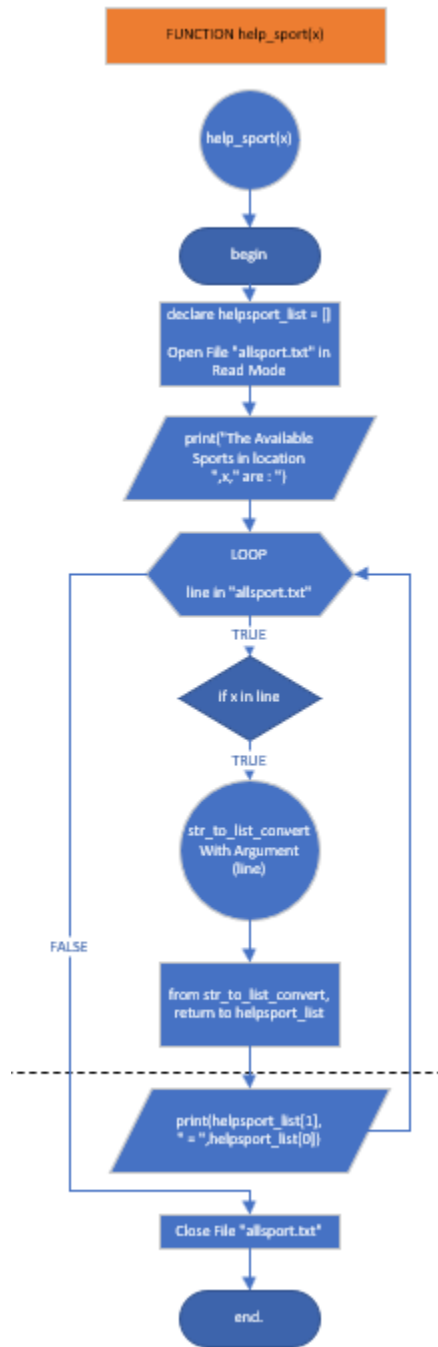
```
FUNCTION str_to_list_convert(line)
```



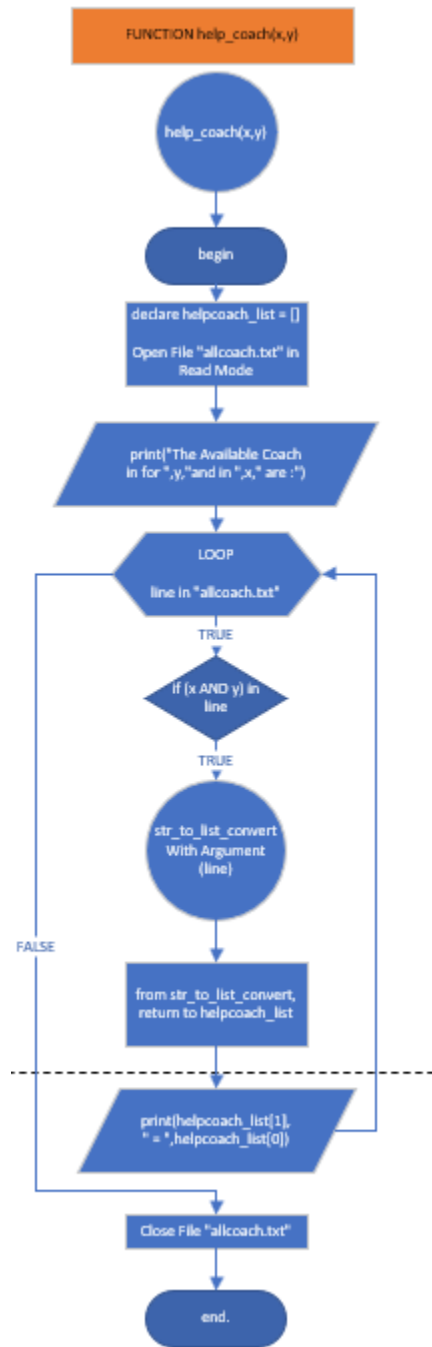
45. Bubble Sort



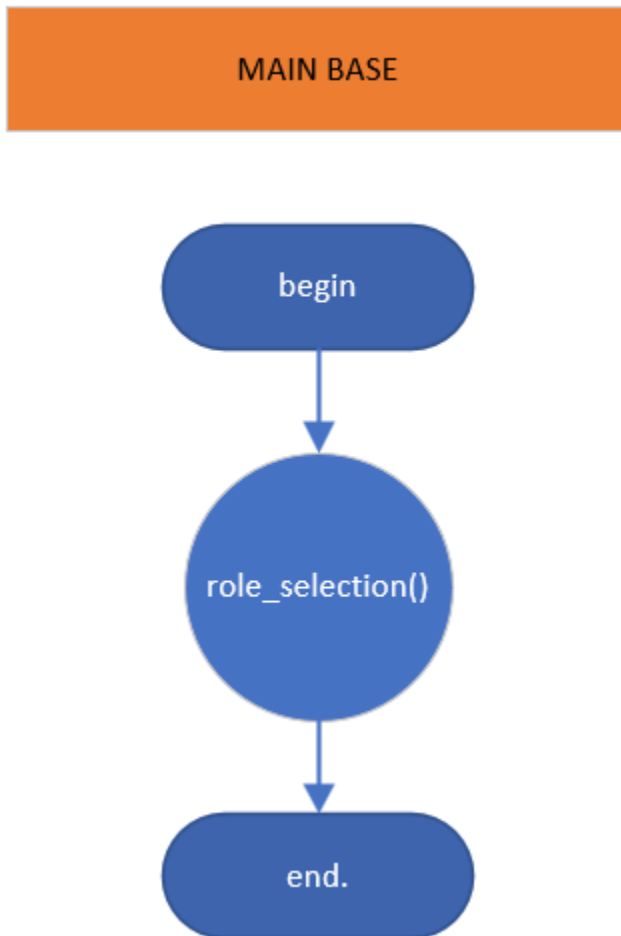
46. Help Sport



47. Help Coach



48. Main Base



5.0 Sample – Python Code

5.1 Variable

```
newcoach_IDcheck = ["ID"]
```

Figure 5.1.1: Variable

Variable is container created in the program to store a value. While variable is usually named by preference, there is some ground rule created so the variable naming scheme won't disrupt the use of the program. First, the first character must be an alphabet, not a number or underscore. Second, not spacing in between the naming of a variable. Third, variable can only use special character underscore. Fourth, each variable must be unique, and last but not least, variable naming scheme is case sensitive.

```
y = int(-modcoach_position+x)
```

Figure 5.1.2: Integer

```
newcoach_norating = str("0")
```

Figure 5.1.3: String

```
modschedule_otherlist = []
```

Figure 5.1.4: List

```
newsch_stime = float(newsch_stime)
```

Figure 5.1.5: Float

There are a few data types that are used for the system. First, we use Integer or coded “*int*” to give a numeric value towards numbers. String or coded “*str*” also used to store text data, so number will not have any value inside string. String must have a single or double quote when declaring it, to indicate that it is a string. List is used for storing multiple data in one variable, and each data can be called based on their position. Float or coded “*float*” is like integer but defaulted into decimal number with 2 decimal number as a default.

5.2 Control Structure

5.2.1 If

```
if search_coachID in line:
    search_coachID_display = str_to_list_convert(line)
    recordscoach_display(search_coachID_display)
```

Figure 5.2.1.1: If

Control Structure with a single If is the simplest form of Control. If the condition set by the user is true, the the instruction under the if (inside the indentation of the if) is executed. If the condition is not met, then the program will just skip the if part.

5.2.2 If-Else

```
if (newsch_stime >= 00.00 and newsch_stime <= 11.59):
    newsch_list.append(newsch_stimet + "AM")
else:
    newsch_list.append(newsch_stimet + "PM")
```

Figure 5.2.2.1: If-Else

In If-Else condition, if the If condition is true, the the instruction under the if structure will be executed. Otherwise, the instruction under the else if the requirement is not met.

5.2.3 Nested If-Else

```
if(regmm_select == 1):
    reg_display_coach(studentid,studentsportid)
    break
elif(regmm_select == 2):
    reg_display_selfrecord(studentid,studentsportid)
    break
elif(regmm_select == 3):
    reg_display_schedule(studentid,studentsportid)
    break
elif(regmm_select == 4):
    mod_selfrecord(studentid,studentsportid)
    break
elif(regmm_select == 5):
    reg_feedback(studentid,studentsportid)
    break
elif(regmm_select == 6):
    reg_login()
    break
elif(regmm_select == 7):
    exit_menu()
    break
else:
    while (regmm_select > 7 or regmm_select < 1):
        print("\nInvalid number!")
        regmm_select = int(input("Please enter your choice based on the number : "))
```

Figure 5.2.3.1: Nested If-Else

Nested If-Else refer to an if structure that have multiple condition that can be met, so an Else if or coded “*elif*” in Python will be created. In case the first If condition is not met, then the program will run the next If condition, until one is matched, or else will be used.

5.3 Looping Structure

5.3.1 While Loop

```
while (regmm_select > 7 or regmm_select < 1):
    print("\nInvalid number!")
    regmm_select = int(input("Please enter your choice based on the number : "))
```

Figure 5.3.1.1: While Loop

While Loop is one of the two type in Looping Structure. While loop is more open, but also needed an increment or an input to avoid an infinite looping.

5.3.2 For Loop

```
for line in regdisplayc_file:
    if studentsportid in line:
        regdisplayc_list = str_to_list_convert(line)
        remove = regdisplayc_list.pop(11)
        remove = remove.replace("R", "")
        regdisplayc_list.insert(11, remove)
        print("\n\nCOACH ID\t\t: ", regdisplayc_list[0])
        print("COACH NAME\t\t: ", regdisplayc_list[1])
        print("LOCATION NAME\t\t: ", regdisplayc_list[8])
        print("SPORT NAME\t\t: ", regdisplayc_list[10])
        print("RATING\t\t\t: ", regdisplayc_list[11])
        print("NUMBER OF RATING\t: ", regdisplayc_list[12])
```

Figure 5.3.2.1: For Loop

For Loop is the second type of Looping Structure, For Loop is less open in the condition that can be used but can automatically moved by itself without any increment or input to disrupt it.

5.4 List

```
modself_otherlist = []
modself_position = int(0)
print(60*"-")
print("\tWELCOME TO CHAMPION CLUB!")
print("\tVIOLENCE, SPEED, MOMENTUM!")
modself_file = open("allregstudent.txt", "r")
for line in modself_file:
    modself_otherlist.append(line)
    if studentid in line:
        del modself_otherlist[modself_position]
        modself_list = str_to_list_convert(line)
        modself_removeindicator = modself_list[7]
        recordsreg_display(modself_list)
        modself_des = str(input("Is this the your d
        if (modself_des == "1"):
            modself_newlist = []
            modself_newlist.append(modself_list[0])
```

Figure 5.4.1: List

List is utilized to store multiple data into a variable. To create a list, identify it using a square bracket, then the list can be filled with elements anytime, can be embedded into the program, or can be an input from the user. Elements also can be inserted into position or remove an element in a specific position.

5.5 Function

```
def str_to_list_convert(line):  
    .....mylist=line.split("·|·")  
    .....remove=mylist.pop()  
    .....remove=remove.replace("\n","")  
    .....mylist.append(remove)  
    .....return(mylist)  
  
#-----  
  
#BUBBLE_SORT  
def bubble_sort(sort_list,length):  
    .....flag=0  
  
    .....while(flag==0):  
    .....    flag=1  
    .....    for i in range(length-1):  
    .....        if sort_list[i]>sort_list[i+1]:  
    .....            flag=0  
    .....            sort_list[i],sort_list[i+1]=sort_list[i+1],sort_list[i]  
    .....  
    .....return(sort_list)
```

Figure 5.5.1: Function

Function is a specialized line of code that can be categorized as another program. Function is mainly deployed in case of repetition work needs to be done, to shorten the the length of overall code. To create a Function, first we need to create a Definition for the function, shorten as “def”, all variable naming and data will not be crossed over from each Function. To call the function, just call the name that is used to Define it. Function also can be set with a parameter and return so data can be processed through the code and used in another function as per usage of the parameter and return.

5.6 File

5.6.1 Write Data into File

```
regfeedback_file = open("coach2malang.txt", "w")
for x in range(regfeedback_position):
    y = int(-regfeedback_position+x)
    print(y)
    regfeedback_add = regfeedback_otherlist[y]
    regfeedback_file.write(regfeedback_add)
regfeedback_file.close()
```

Figure 5.6.1.1: Write Data into File

Write data into a file use the “w” code when opening the file. The usage is to enter any specified data that has been prepared into the file. The usage of write means to overwrite any previous data available in the text file previously.

5.6.2 Append Data into File

```
regfeedback_file = open("coachfeedback.txt", "a")
regfeedback_file.write("For Coach "+regfeedback_list[1]+" \n\tCode ")
regfeedback_file.close()
```

Figure 5.6.2.1: Append Data into File

Append data into a file use the “a” code when opening the file. The usage is to add any specified data that has been prepared into the file. Because we are only adding the data into the file, the previous data in the text file will not be touched.

5.6.3 Read Data from File

```
if (regfeedback_loc == "L001"):
    regfeedback_file = open("coach1surabaya.txt", "r")
    for line in regfeedback_file:
        regfeedback_otherlist.append(line)
        if regfeedback_coachid in line:
            del regfeedback_otherlist[regfeedback_position]
            regfeedback_otherlist.insert(regfeedback_position, final)
        regfeedback_position += 1
    regfeedback_file.close()
    print(regfeedback_otherlist)
```

Figure 5.6.3.1: Read Data from File

Read data from a file use the “r” code when opening the file. The usage is to read any previous data in the text file for search, print the data, or any other usage.

5.6.4 Search Data in File

```
search_studentID = str(input("Please Enter the ID of the Student you want to search(STxxx) : "))
search_studentID_file = open("allregstudent.txt", "r")
for line in search_studentID_file:
    if search_studentID in line:
        search_studentID_display = str_to_list_convert(line)
        recordsreg_display(search_studentID_display)
    else:
```

Figure 5.6.4.1: Search Data in File

Search Data inside a file can be done by combining read function with Looping and Condition Function. The user can input any specified data, and any result found will be printed/shown.

6.0 Screenshot of Input and Output

```
-----  
WELCOME TO CHAMPION CLUB!  
VIOLENCE, SPEED, MOMENTUM!  
  
Please choose the role :  
1. Admin  
2. Student  
3. Guest  
4. Exit  
Please enter your role based on the number : █
```

First time executing the program, the user will be greeted with a Role Selection menu, the user can input the role based on the number to continue.

```
Please enter your role based on the number : 1  
-----  
WELCOME TO CHAMPION CLUB!  
VIOLENCE, SPEED, MOMENTUM!  
  
Hello Admin. Please enter your identification :  
ID NAME : █
```

If the user choose admin, then first they need to input the ID name and Password for the admin. Since there is only one admin, the credential is embedded into the program.

```
-----  
WELCOME TO CHAMPION CLUB!  
VIOLENCE, SPEED, MOMENTUM!  
  
Hello Admin. Please enter your identification :  
ID NAME : ald  
PASSWORD : adl  
Your ID or Password is incorrect, enter 1 to try again, or any other key to exit : █
```

If the credential is wrong, then the program gives the user choice to try again by entering 1 or to exit the function by entering any other key.

```
Your ID or Password is incorrect, enter 1 to try again, or any other key to exit : a  
-----  
WELCOME TO CHAMPION CLUB!  
VIOLENCE, SPEED, MOMENTUM!  
Thankyou, Have a nice day!  
Press '1' to go back to Role Selection, or enter any key to terminate the program █
```


If the user opts to quit, the the exit will be shown. The user can enter 1 to go back to Role Selection, or to terminate the program by any other key.

```
-----  
      WELCOME TO CHAMPION CLUB!  
      VIOLENCE, SPEED, MOMENTUM!  
  
Hello Admin. Please enter your identification :  
ID NAME : edo14  
PASSWORD : test123  
-----  
      WELCOME TO CHAMPION CLUB!  
      VIOLENCE, SPEED, MOMENTUM!  
  
Hello Admin, Please enter what records do you want to access :  
1. Add Records  
2. Display All Records  
3. Search Specific Records  
4. Sort and Display Records  
5. Modify Records  
6. Log Out  
7. Exit  
Please enter your choice based on the number : █
```

If the credentital is correct, then the admin will be automatically entered into Admin Main Menu. Here we can choose all admin functionalities, log out to go back to Admin Login, or to exit.

```
Please enter your choice based on the number : 1  
-----  
      WELCOME TO CHAMPION CLUB!  
      VIOLENCE, SPEED, MOMENTUM!  
  
Hello Admin, Please enter what records do you want to add :  
1. Add Coach Records  
2. Add Sport Records  
3. Add Sport Schedule Records  
4. Back to Admin Main Menu  
5. Exit  
Please enter your choice based on the number : █
```

If the admin choose add records function, they will be moved into a separate main menu to specifiy which records do they want to add.

```
Please enter your choice based on the number : 1
-----
      WELCOME TO CHAMPION CLUB!
      VIOLENCE, SPEED, MOMENTUM!

The New Coach's ID : ID006
Enter the new coach's name : William Wiraatmaja
Enter the new coach's Join Date (dd/mm/yyyy) : 28/10/2002
Enter the new coach's Termination Date (If new, enter --/--/--) : --/--/----
Enter the new coach's Hourly Rates in RM (Example : if 200 MYR/Hr, then enter '200')(Range of pay is 100-500RM per hr) : 300
Enter the new coach's Phone Number : 0921831623421348
Enter the new coach's Address : Surya Blok Ayam
Enter the new coach Location's ID (Type 'help' if the Location ID list is needed) : help

Location ID List :

If the location is Surabaya, please enter "L001"
If the location is Malang, please enter "L002"
If the location is Lampung, please enter "L003"

Enter the new coach Location's ID (Type 'help' if the Location ID list is needed) : L001
The Available Sports in location L001 are :
Basketball = S001
Archery = S002
Gymnastics = S003
Volleyball = S004
Enter the new coach Sport's ID : S001
Enter the new coach's Rating (Enter '0.0' if the coach is new) : 0.0

COACH ID          : ID006
COACH NAME        : William Wiraatmaja
DATE JOINED       : 28/10/2002
DATE TERMINATED   : --/--/----
HOURLY RATE IN MYR : 300 RM/Hr
PHONE NUMBER      : 0921831623421348
ADDRESS           : Surya Blok Ayam
LOCATION ID         : L001
LOCATION NAME       : Surabaya
SPORT ID          : S001
SPORT NAME        : Basketball
RATING            : 0.0
NUMBER OF RATING  : 0
Please enter '1' to enter the data into the database, or enter any key to quit back to Add Main Menu : █
```

Any of the Add records function will look similar. For demonstration, Add Records of Coach is opened. The Admin will then input the necessary data required. In case of ID, the Automatic ID checker will read the last used ID, and then enter in the newest available ID, so no duplicated ID will occur. When entering the Location, help can be entered to display the available location name and their IDs, respectively. Based on the location, the sport available in the area will also be printed to guide the adding process. Last, when all data required has been filled, the program give the Admin a choice to input the data into the database by pressing 1, or any other key to quit back to Add Main Menu.

```
Please enter '1' to enter the data into the database, or enter any key to quit back to Add Main Menu : 1
Save Successful!
Press anything to go back to Add Main Menu
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to add :
1. Add Coach Records
2. Add Sport Records
3. Add Sport Schedule Records
4. Back to Admin Main Menu
5. Exit
Please enter your choice based on the number : █
```

```
Please enter '1' to enter the data into the database, or enter any key to quit back to Add Main Menu : a
OK, press anything to go back to Add Main Menu █
```

If 1 is entered, then the Data will be entered into the database, then the admin will send back to Add Main Menu. Else, the program will send the user back to Add Main Menu

```
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to access :
1. Add Records
2. Display All Records
3. Search Specific Records
4. Sort and Display Records
5. Modify Records
6. Log Out
7. Exit
Please enter your choice based on the number : 2
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to display :
1. Display Coach Records
2. Display Sport Records
3. Display Registered Student Records
4. Back to Admin Main Menu
5. Exit
Please enter your choice based on the number : 1
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to display :
1. Coach in all Locations
2. Coach in Surabaya
3. Coach in Malang
4. Coach in Lampung
5. Back to Display Main Menu
6. Exit
Please enter your choice based on the number : 1
```

Other function of the admin also includes to display records of Coach, Sport, and Registered Student. The same process occurred as the Admin will be passed into a separate main menu and then can input which function, they want to access. In case of Display records function,

every function will give a choice between to show records from all locations or based on each location.

```
Please enter your choice based on the number : 2

COACH ID      : ID001
COACH NAME    : Edward Leonardo
DATE JOINED   : 14/06/2002
DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 250 RM/Hr
PHONE NUMBER  : 081359282894
ADDRESS       : Ploso Timur
LOCATION ID    : L001
LOCATION NAME   : Surabaya
SPORT ID     : S001
SPORT NAME    : Basketball
RATING       : 4.75
NUMBER OF RATING : 4

COACH ID      : ID002
COACH NAME    : Jason Pringgo
DATE JOINED   : 20/06/2002
DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 250 RM/Hr
PHONE NUMBER  : 081923854756
ADDRESS       : Ploso Timur
LOCATION ID    : L001
LOCATION NAME   : Surabaya
SPORT ID     : S004
SPORT NAME    : Volleyball
RATING       : 0
NUMBER OF RATING : 0

COACH ID      : ID003
COACH NAME    : Steven Edvardomaris Nau
DATE JOINED   : 11/10/2002
DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 450 RM/Hr
PHONE NUMBER  : 08192384756
ADDRESS       : Victoria Cluster
LOCATION ID    : L001
LOCATION NAME   : Surabaya
SPORT ID     : S002
SPORT NAME    : Archery
RATING       : 0
NUMBER OF RATING : 0ID006
Press anything to go back to Records Main Menu
```

After the choice has been selected, the program will then print the available data according by the selection. After that, it will send the user back to Display Records Main Menu.

```
Please enter your choice based on the number : 3
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to search :
1. Search Coach by Coach ID
2. Search Coach by Overall Performance/Rating
3. Sport by Sport ID
4. Student by Student ID
5. Back to Admin Main Menu
6. Exit
Please enter your choice based on the number : 1
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!
Please Enter the ID of the Coach you want to search(IDxxx) : ID001

COACH ID           : ID001
COACH NAME          : Edward Leonardo
DATE JOINED         : 14/06/2002
DATE TERMINATED     : --/--/----
HOURLY RATE IN MYR  : 250 RM/Hr
PHONE NUMBER        : 081359282894
ADDRESS             : Ploso Timur
LOCATION ID           : L001
LOCATION NAME         : Surabaya
SPORT ID            : S001
SPORT NAME          : Basketball
RATING              : 4.75
NUMBER OF RATING    : 4
Press any key to return back to Search Main Menu

Please Enter the ID of the Coach you want to search(IDxxx) : ID011
No Data Found!
Press any key to return back to Search Main Menu
```

For the search function, the Admin will be redirected to the Search Main Menu, where they can choose which data they want to search, and by what keyword they want to enter. After entering the keyword, the program will then search the data based on the keyword. If the data is found, then the data will be printed. Else, the “No Data Found!” Message will appear.

```
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to access :
1. Add Records
2. Display All Records
3. Search Specific Records
4. Sort and Display Records
5. Modify Records
6. Log Out
7. Exit
Please enter your choice based on the number : 4
-----

WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to sort in ascending order :
1. Sort Coaches by Name
2. Sort Coaches by Hourly Pay Rate
3. Sort Coaches by Overall Performance/Rating
4. Back to Admin Main Menu
5. Exit
Please enter your choice based on the number : 1
-----
```

Next up, Sort Function. After entering the number, the admin will be moved to the Sort Main menu. All sort function will sort the data in ascending order. The admin then can choose how to sort the Coach Data, and then the data will automatically be shown sorted by the category that has been chosen. All Coach data is automatically stored in the file based by Coach ID in ascending order.

COACH ID : ID001	COACH ID : ID007	COACH ID : ID003
COACH NAME : Edward Leonardo	COACH NAME : Joseph Felix	COACH NAME : Steven Edvardomaris Nau
DATE JOINED : 14/06/2002	DATE JOINED : 16/08/2002	DATE JOINED : 11/10/2002
DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 250 RM/Hr	HOURLY RATE IN MYR : 350 RM/Hr	HOURLY RATE IN MYR : 450 RM/Hr
PHONE NUMBER : 081359282894	PHONE NUMBER : 0193473572942	PHONE NUMBER : 08192384756
ADDRESS : Ploso Timur	ADDRESS : 3 Rumah	ADDRESS : Victoria Cluster
LOCATION ID : L001	LOCATION ID : L002	LOCATION ID : L001
LOCATION NAME : Surabaya	LOCATION NAME : Malang	LOCATION NAME : Surabaya
SPORT ID : S001	SPORT ID : S006	SPORT ID : S002
SPORT NAME : Basketball	SPORT NAME : Football	SPORT NAME : Archery
RATING : 4.75	RATING : 0.0	RATING : 2
NUMBER OF RATING : 4	NUMBER OF RATING : 0	NUMBER OF RATING : 0
COACH ID : ID004	COACH ID : ID005	COACH ID : ID006
COACH NAME : Fransisca Eva	COACH NAME : Moudy Wiyono	COACH NAME : William Wiraatmaja
DATE JOINED : 04/10/2002	DATE JOINED : 30/06/2002	DATE JOINED : 28/10/2002
DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 300 RM/Hr	HOURLY RATE IN MYR : 350 RM/Hr	HOURLY RATE IN MYR : 300 RM/Hr
PHONE NUMBER : 08135928923284	PHONE NUMBER : 0812837651934	PHONE NUMBER : 0921831623421348
ADDRESS : Lampung	ADDRESS : Ikan No.1	ADDRESS : Surya Blok Ayam
LOCATION ID : L003	LOCATION ID : L002	LOCATION ID : L001
LOCATION NAME : Lampung	LOCATION NAME : Malang	LOCATION NAME : Surabaya
SPORT ID : S010	SPORT ID : S006	SPORT ID : S001
SPORT NAME : Tennis	SPORT NAME : Football	SPORT NAME : Basketball
RATING : 3	RATING : 5	RATING : 0.0
NUMBER OF RATING : 0	NUMBER OF RATING : 0	NUMBER OF RATING : 0
COACH ID : ID002	COACH ID : ID003	COACH ID : ID003
COACH NAME : Jason Pringgo	COACH NAME : Steven Edvardomaris Nau	COACH NAME : Steven Edvardomaris Nau
DATE JOINED : 20/06/2002	DATE JOINED : 11/10/2002	DATE JOINED : 11/10/2002
DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----	DATE TERMINATED : --/--/----
HOURLY RATE IN MYR : 250 RM/Hr	HOURLY RATE IN MYR : 450 RM/Hr	HOURLY RATE IN MYR : 450 RM/Hr
PHONE NUMBER : 081923854756	PHONE NUMBER : 08192384756	PHONE NUMBER : 08192384756
ADDRESS : Ploso Timur	ADDRESS : Victoria Cluster	ADDRESS : Victoria Cluster
LOCATION ID : L001	LOCATION ID : L001	LOCATION ID : L001
LOCATION NAME : Surabaya	LOCATION NAME : Surabaya	LOCATION NAME : Surabaya
SPORT ID : S004	SPORT ID : S002	SPORT ID : S002
SPORT NAME : Volleyball	SPORT NAME : Archery	SPORT NAME : Archery
RATING : 4.1	RATING : 2	RATING : 2
NUMBER OF RATING : 0	NUMBER OF RATING : 0	NUMBER OF RATING : 0

Press any key to return back to Sort Main Menu.

The data then will be printed after being sorted. After that, the Admin will be redirected back to Sort Main Menu.

```
Hello Admin, Please enter what records do you want to access :
1. Add Records
2. Display All Records
3. Search Specific Records
4. Sort and Display Records
5. Modify Records
6. Log Out
7. Exit
Please enter your choice based on the number : 5
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Admin, Please enter what records do you want to modify :
1. Modify Coach Data
2. Modify Sport Data
3. Modify Sport Schedule Data
4. Back to Admin Main Menu
5. Exit
Please enter your choice based on the number : 2
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!
Please enter the Sport ID that you want to modify : S011

SPORT ID          : S011
SPORTNAME         : Golf
LOCATION ID        : L002
LOCATION NAME      : Malang
Is this the right sport data? Enter '1' if correct, or any key to go back to Modify Main Menu : 1
Enter the sport's name (If the data still the same, type 'same') : same
Enter the sport's Location ID (Type 'Help' if the list of Location IDs is Needed) (If the data still the same, type 'same') : L001

SPORT ID          : S011
SPORTNAME         : Golf
LOCATION ID        : L001
LOCATION NAME      : Surabaya
Please enter '1' to submit the modified the data, or enter any key to enter a new set of data : 1
Deleting Old Data...
Done Deleting the data from old file, now printing the data into the new file...
Done, Press any key to return to go back to Modify Main Menu
```

The last Admin Function is to modify existing data. First choosing what data that needed to be modified. And then entering the respective data ID. If the data is found, then an overview of the data will be printed. In the picture above, Sport data “S011” is chosen to be modified. After confirmation to modify the data, the data then can modify. If the data is still the same for that category, then the admin can enter “same” to get the old data. There are exceptions on what category that cannot be modified. All ID cannot be modified, and for coach, rating also has been disabled for modify. After inputting the necessary data, the program will print the overview of the modified data. After that, and confirmation will be asked to overwrite the old data from the database. If confirmation approved, then the new data will replace the old one from the database. If the data moved location, then the data in the database will automatically moved too, from the previous location to the new location. The data in all location also will be overwritten. After that, the Admin will be sent back to the Modify Main Menu.


```
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Please choose the role :
1. Admin
2. Student
3. Guest
4. Exit
Please enter your role based on the number : 2
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Student. Please enter your identification :
Username : edo14
Password : test123
Username or Password is wrong! Enter '1' to try again, or enter any other key to go back to role selection menu : 1
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Student. Please enter your identification :
Username : edo14
Password : edo140602
Login Successful!
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Student, Please enter what records do you want to access :
1. View detail of coach for your sport
2. View detail of your own Self Records
3. View detail of registered sport schedule only
4. Modify Self Record
5. Provide feedback and Rating to your coach
6. Log Out
7. Exit
Please enter your choice based on the number : █
```

After Admin Functionalities, there is the Student Functionalities. First, the student will need to input their Username and their password. The credentials are stored in the student data text file. If login failed, a choice to try again will be given or the user can go back to Role Selection. If the credential checks out, then the student will enter their Menu. In the example above, the student is in Surabaya, and taking the basketball course with ID ST001. The Student can log out to go back to Student Login, or exit to go to exit menu.

```
Please enter your choice based on the number : 1
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!
This is the Available Coach for Basketball :

COACH ID      : ID001
COACH NAME    : Edward Leonardo
LOCATION NAME   : Surabaya
SPORT NAME    : Basketball
RATING        : 4.75
NUMBER OF RATING : 4

COACH ID      : ID006
COACH NAME    : William Wiraatmaja
LOCATION NAME   : Surabaya
SPORT NAME    : Basketball
RATING        : 0.0
NUMBER OF RATING : 0
Press anything to go back to Main Menu
```

First function available for student is to see their sport's coaches. Because the data of their sport ID has been stored from Login, the program will automatically only show the student coaches based on their sport. After all coaches has been display, the student can enter anything to go back to Main Menu.

```
-----  
      WELCOME TO CHAMPION CLUB!  
      VIOLENCE, SPEED, MOMENTUM!  
This is your personal record :  
  
STUDENT ID       : ST001  
STUDENT USERNAME  : edo14  
STUDENT PASSWORD  : edo140602  
STUDENT NAME     : Edward Leonardo  
AGE              : 18  
ADDRESS          : Ploso Timur  
PHONE NUMBER     : 081359282895  
LOCATION ID       : L001  
LOCATION NAME      : Surabaya  
SPORT ID        : S001  
SPORT NAME       : Basketball  
Press anything to go back to Main Menu
```

The second function available for student is to see their own self-record. Because the Student ID has been read from login, then the student will automatically see only their own data. After printing the data, the student also can enter anything to go back to Main Menu.

```
-----  
      WELCOME TO CHAMPION CLUB!  
      VIOLENCE, SPEED, MOMENTUM!  
This is your registered sport schedule :  
  
SCHEDULE ID      : SCH001  
LOCATION ID       : L001  
LOCATION NAME      : Surabaya  
SPORT ID        : S001  
SPORT NAME       : Basketball  
COACH ID        : ID001  
COACH NAME       : Edward Leonardo  
DAY             : Monday  
STARTING TIME BY THOUSAND : 12.00 PM  
TIME DURATION IN MINUTES : 120 Minutes  
Press anything to go back to Main Menu
```

The same also happened for their Registered Sport's Schedule.

```
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Student, Please enter what records do you want to access :
1. View detail of coach for your sport
2. View detail of your own Self Records
3. View detail of registered sport schedule only
4. Modify Self Record
5. Provide feedback and Rating to your coach
6. Log Out
7. Exit
Please enter your choice based on the number : 4
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

STUDENT ID      : ST001
STUDENT USERNAME : edo14
STUDENT PASSWORD : edo140602
STUDENT NAME     : Edward Leonardo
AGE              : 18
ADDRESS          : Ploso Timur
PHONE NUMBER     : 081359282895
LOCATION ID       : L001
LOCATION NAME      : Surabaya
SPORT ID         : S001
SPORT NAME       : Basketball
Is this the your data? Enter '1' if correct, or any key to go back to your Main Menu : 1
Enter your Username (If the data still the same, type 'same') : same
Enter your Password (Minimum 8 Characters long)(If the password still the same, please enter it again) : edo140602
Enter your Name (If the data still the same, type 'same') : same
Enter your age (If the data still the same, type 'same') : same
Enter your address (If the data still the same, type 'same') : same
Enter your phone number (If the data still the same, type 'same') : same
Enter your Location ID (Type 'Help' if the list of Location IDs is Needed) (If the data still the same, type 'same') : same
The Available Sports in location L001 are :
Basketball = S001
Archery = S002
Gymnastics = S003
Volleyball = S004
Golf = S011
Enter your Sport ID (If the data still the same, type 'same') : same
```

```
STUDENT ID      : ST001
STUDENT USERNAME : edo14
STUDENT PASSWORD : edo140602
STUDENT NAME     : Edward Leonardo
AGE              : 18
ADDRESS          : Ploso Timur
PHONE NUMBER     : 081359282895
LOCATION ID       : L001
LOCATION NAME      : Surabaya
SPORT ID         : S001
SPORT NAME       : Basketball
Please enter '1' to submit the modified the data, or enter any key to enter a new set of data :
```

The student also can modify their own data by will. The same process took place as Modify data from Admin Function. The exception is password that is needed to be entered manually.

```
Please enter your choice based on the number : 5
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

COACH ID          : ID001
COACH NAME        : Edward Leonardo

COACH ID          : ID006
COACH NAME        : William Wiraatmaja
Enter the coach's ID of the coach you want to give the rating and feedback on : ID006
Enter your Rating Between 1(Lowest) - 5(Highest) : 4
Input comment, critique, or feedback for the coach : Good Job
Okay, Submitting your Rating and Feedback...
Done, Press anything to go back to Main Menu
```

Student last function is to give a rating and a feedback to their coach. First, they need to input their coach's ID that have been printed above. After that, then can input their rating and their feedback. Finally, they will be sent back to their main menu.

```
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Please choose the role :
1. Admin
2. Student
3. Guest
4. Exit
Please enter your role based on the number : 3
-----
WELCOME TO CHAMPION CLUB!
VIOLENCE, SPEED, MOMENTUM!

Hello Guest, Please enter what do you want to access :
1. View details of the sports available
2. View details of the sport schedules
3. Register to become a new student
4. Go back to Role Selection
4. Exit
Please enter your choice based on the number : 
```

Last, there is Guest Functionalities to access any public records, such as sports available and their respective schedule. Both functions use the same methods as their admin counterpart. The Guest Main Menu can register a new member.

```
Please enter your choice based on the number : 3
-----
      WELCOME TO CHAMPION CLUB!
      VIOLENCE, SPEED, MOMENTUM!
Hello new User!
Your new ID is : ST003
Enter your Username : edo14
Sorry, the username has been taken. Please try again!
Enter your username : edo12
Enter your Password (Mininum 8 character long) : edo12
The Password is too short! Please enter a new one!
Enter your Password (Mininum 8 character long) : edo121212
Enter your Name : edo
Enter your Age : 10
Enter your Address : APU
Enter your Phone Number : 0219318246134
Enter your Location ID (Type 'help' if the Location ID list is needed)(Lxxx) : L003
The Available Sports in location L003 are :
Cricket = S008
Table Tennis = S009
Tennis = S010
Enter your Sport ID(Sxxx) : S008

STUDENT ID      : ST003
STUDENT USERNAME : edo12
STUDENT PASSWORD : edo121212
STUDENT NAME    : edo
AGE             : 10
ADDRESS         : APU
PHONE NUMBER    : 0219318246134
LOCATION ID      : L003
LOCATION NAME     : Lampung
SPORT ID       : S008
SPORT NAME      : Cricket
Please enter '1' to enter the data into the database, or enter any key to quit back to Guest Main Menu : █
```

When the guest register, they will be asked to enter their data. Student ID will be automatically provided. Username will be checked, as all usernames must be unique from one another. Password length also will be checked to match the minimum 8 characters long. After all data has been filled, the choice to enter the database is given. If the guest enters 1, then their data will be written into the database, making the a student.

7.0 Additional Features

7.1 Len

```
sortperf_length = len(sortperf_blist)
```

Figure 7.1.1: Len for List

```
length = len(existID)
```

Figure 7.1.2: Len for Variable

Len function is used to know the amount of character written in a variable. If used for List, then to count the number of elements that is inside the list.

7.2 Split

```
spl = line.split("|")
```

Figure 7.2.1: Split with divider ("|")

.Split is used to split a text become a List. A Divider can be set, or the default will be any blankspace.

7.3 Replace

```
existID = existID.replace("ID", "")
```

Figure 7.3.1: Replace "ID" with ""(Blank)

.replace is used to replace a specified character from a variable, in the program, it is used to remove "\n" on the end of every list due to the filing system.

7.4 Round

```
round(regfeedback_list[11],2)
```

Figure 7.4.1: Round the data to 2 Decimal Numbers

Round function is used to round a long decimal number. It can be set how many decimal numbers to be kept.

7.5 Automatic ID System

```
def id_auto(remover):  
    if (remover == "ID"):  
        myfile = open("allcoach.txt", "r")  
    elif (remover == "S"):  
        myfile = open("allsport.txt", "r")  
    elif (remover == "ST"):  
        myfile = open("allregstudent.txt", "r")  
    elif (remover == "SCH"):  
        myfile = open("allsportschedule.txt", "r")  
    for line in myfile:  
        spl = line.split(".")  
        existID = spl[0]  
  
    if remover == "ID":  
        existID = existID.replace("ID", "")  
    elif remover == "S":  
        existID = existID.replace("S", "")  
    elif remover == "ST":  
        existID = existID.replace("ST", "")  
    elif remover == "SCH":  
        existID = existID.replace("SCH", "")  
    existID = int(existID)  
    existID = existID + 1  
    existID = str(existID)  
    length = len(existID)  
  
    if (length == 1 and remover == "ID"):  
        newID = str("ID00" + existID)  
    elif (length == 2 and remover == "ID"):  
        newID = str("ID0" + existID)  
    elif (length == 3 and remover == "ID"):  
        newID = str("ID" + existID)  
    elif (length == 1 and remover == "S"):  
        newID = str("S00" + existID)  
    elif (length == 2 and remover == "S"):  
        newID = str("S0" + existID)  
    elif (length == 3 and remover == "S"):  
        newID = str("S" + existID)  
    elif (length == 1 and remover == "ST"):  
        newID = str("ST00" + existID)  
    elif (length == 2 and remover == "ST"):  
        newID = str("ST0" + existID)  
    elif (length == 3 and remover == "ST"):  
        newID = str("ST" + existID)  
    elif (length == 1 and remover == "SCH"):  
        newID = str("SCH00" + existID)  
    elif (length == 2 and remover == "SCH"):  
        newID = str("SCH0" + existID)  
    elif (length == 3 and remover == "SCH"):  
        newID = str("SCH" + existID)  
    return newID
```

Figure 7.5.1: Automatic ID

This Function help every Adding records situation occurred. The last ID used in the database will be read, and the system will automatically give the next unused ID.

7.6 Help

```
#HELP_SPORT_ID
def help_sport(x):
    ...helpsport_file = open("allsport.txt", "r")
    ...print("The Available Sports in location "+x+" are :")
    ...for line in helpsport_file:
    ...    ...if x in line:
    ...        ...helpsport_list = str_to_list_convert(line)
    ...        ...print(helpsport_list[1]+" = "+helpsport_list[0])

#-----

#HELP_COACH_ID
def help_coach(x,y):
    ...helpcoach_file = open("allcoach.txt", "r")
    ...print("The Available Coach in for "+y+" and in "+x+" are :")
    ...for line in helpcoach_file:
    ...    ...if (x and y) in line:
    ...        ...helpcoach_list = str_to_list_convert(line)
    ...        ...print(helpcoach_list[1]+" = "+helpcoach_list[0])
```

Figure 7.6.1: Help with Coach and Sport Data

```
while (modself_new == "Help" or modself_new == "HELP" or modself_new == "help"):
    ...modself_help = open("help_locationID.txt", "r")
    ...print(modself_help.read())
    ...modself_help.close()
```

Figure 7. 6.2: Help with Location

```
while (modschedule_new == "help" or modschedule_new == "HELP" or modschedule_new == "Help"):
    ...modschedule_help = open("help_time.txt", "r")
    ...print(modschedule_help.read())
    ...modschedule_help.close()
```

Figure 7. 6.3: Help with Time

Help function is scattered throughout the program. Most prominently to show a clearer, more specified data if assistance is called by the user. All help functions are shown in the pictures above.

7.7 Automatic Coach and Sport Name

```
#SPORTNAME_SEARCH
def sportname_search(x):
    myfile = open("allsport.txt", "r")
    for line in myfile:
        if x in line:
            spl = line.split(".")
            name = spl[1]
            return name

#-----

#COACHNAME_SEARCH
def coachname_search(x):
    myfile = open("allcoach.txt", "r")
    for line in myfile:
        if x in line:
            spl = line.split(".")
            name = spl[1]
            return name
```

Figure 7.7.1: Automatic Coach and Sport Name

The System also will detect whenever a Coach or Sport ID is inserted, and will automatically fetch their name for usage.

8.0 Conclusion

- I concluded that with the system implemented, All user can login with the use of ID and Password.
- I concluded that the system could help the admin add records.
- I concluded that the system could help the admin display available records.
- I concluded that the system could help the admin to search a specific record based on the keyword provided.
- I concluded that the system could help the admin to sort and display data.
- I concluded that the system could help the admin to modify of available records.
- I concluded that the system could help guests to view detail of public information.
- I concluded that the system could help guests to register to become a registered member/student.
- I concluded that the system could help students to view their own and any related data.
- I concluded that the system could help students to modify their own information.
- I concluded that the system could help students to give a rating and feedback to their coaches.
- I concluded that the system could automatically provides an ID when adding a data to prevent any duplication take place.

9.0 References

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