Pseudo Code for the admin portion:

Display menu whether to enter as an admin, registered student or non- registered student

IF admin portal is selected, start a loop THEN

Get the admin data from admin.txt file from the function get\_admin()

Get the coaches data from coaches.txt file from the function get\_coaches\_data()

Get the students data from students.txt file from the function get\_students()

Get the students data from sport.txt file from the function get\_sport\_data()

Ask the user to enter username and password

IF password and username match the one from data from admins database

Allow admin to enter

ELSE

Ask again

Display admin menu

Ask user choice from the menu

IF choice entered is 1

Ask to choose coach or sport

IF coach is selected

Enter coach data in correct format

IF format is correct, enter the data into the system

ELSE display the error message

ELSE IF sport is selected

Enter sport data in correct format

IF format is correct, enter the data into the system

ELSE display the error message

ELSE IF choice entered is 2

Ask to choose coach, students or sport

IF coach is selected

Display all the coaches in the data obtained from the txt file.

ELSE IF sport is selected

Display all the coaches in the data obtained from the txt file.

ELSE IF student is selected

Display all the students in the data obtained from the txt file.

ELSE IF choice entered is 3

Ask to choose coach by ID, coach by performance, student by ID or sport by ID

IF coach by ID is selected

Ask for coach ID

Display all the coaches in the data obtained from the txt file with the same ID.

ELSE IF coach by performance is selected

Ask for coach rating

Display all the coaches in the data obtained from the txt file with the same rating.

ELSE IF sport by ID is selected

Ask for sport ID

Display all the sports in the data obtained from the txt file with the same ID.

ELSE IF student by ID is selected

Ask for coach ID

Display all the coaches in the data obtained from the txt file with the same ID.

ELSE IF choice entered is 4

Ask to sort coaches by name, hourly rate or performance

IF by name is selected

Sort the coaches by name

Display all the coaches in the data obtained from the txt file.

ELSE IF by performance is selected

Sort the coaches by performance

Display all the coaches in the data obtained from the txt file.

ELSE IF by hourly rate is selected

Sort the coaches by hourly rate

Display all the coaches in the data obtained from the txt file.

ELSE IF choice entered is 5

Ask to choose from coach or sport to be modified

IF coach is selected

Ask for coach ID to be modified

IF the coach exists, ask for modified data to be entered in a format

IF the format is correct enter the data into the system

ELSE IF sport is selected

Ask for sport ID to be modified

IF the sport exists, ask for modified data to be entered in a format

IF the format is correct enter the data into the system

ELSE IF choice entered is 6

Break out of the loop and close the program