**Plan for PA**

1. *Program Purpose*:

|  |  |  |
| --- | --- | --- |
| **Input** | **Processing** | **Output** |
| teamType  coachName  noOfGames  noOfWins  setTeam  setCoach  setTotalGames  setWins  noOfLosses | noOfGames – noOfWins= noOfLosses  winPercentage = noOfWins/noOfGames | TEAMS WIN-LOSS RECORD FOR XXXXXXXXXXXX    Team: Xxxxxxxxxxxx  Coach: Xxxxxxxxxxxx  Total Games: ZZ9  No. of Wins: ZZ9  No. of Losses: ZZ9  Win Percent: ZZ9.99%  Team: Xxxxxxxxxxxx  Coach: Xxxxxxxxxxxx  Total Games: ZZ9  No. of Wins: ZZ9  No. of Losses: ZZ9  Win Percent: ZZ9.99% |

1. *Class Diagram:*

|  |  |
| --- | --- |
| Class Name | Ramos\_\_\_\_001PA4 |
| Class  Data Members | Andrew Ramos  Nicholas |
| Method  Data Members | Main() |
| Methods | main(String[] args)  start()  processWinsLosses()  setTeam()  setCoach()  setTotalGames()  setWins() |

1. *Program Logic:*

|  |
| --- |
| **import Stmts: *import NameOfClass*** |
| Import Scanner  Import Calendar |

|  |
| --- |
| **Class Header: *public class NameOfYourClass*** |
| Public class RAMOS\_\_\_\_\_001PA4 |

|  |
| --- |
| **Class Variables (Fields): *Refer to the Class Data Members section of the class diagram for a list of class variables which should always be private (-).*** |
|  |

**Method Logic table**

**🡻Recopy for each method in your program.**

|  |  |  |
| --- | --- | --- |
| **Method Purpose:** | | |
| **Method Header** | Public static void main(String[] args) | |
| **Method Variables** | Scanner input  Calendar dateTime  Char start()  String processWinsLosses()  int setTeam()  String setCoach()  int setTotalGames()  int setWins() | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | performance | %n  “Do you want to track the performance of the athletic teams at your school? Enter 'Y' or 'N':  “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
| **1** | Thank you! Exiting program  System.exit(0); | |
|  |  | |
| **Algorithms** | If Y  Prompt 1  Else  Print 1  Return | |

|  |  |  |
| --- | --- | --- |
| **Method Purpose:** | | |
| **Method Header** | String processWinsLosses | |
| **Method Variables** | Scanner input  Calendar dateTime  Char start()  String processWinsLosses()  int setTeam()  String setCoach()  int setTotalGames()  int setWins() | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | schoolName | %n  “What is the name of your school?: “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
|  |  | |
|  |  | |
| **Algorithms** | Prompt 1  Return | |
| **Method Purpose:** | | |
| **Method Header** |  | |
| **Method Variables** |  | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | noOfTeams | %n  “How many athletic teams do you have at your school?  “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
| **1** |  | |
| **2** |  | |
| **Algorithms** | Prompt 1  Return | |

|  |  |  |
| --- | --- | --- |
| **Method Purpose:** | | |
| **Method Header** |  | |
| **Method Variables** |  | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | teamType | %n  “Enter the team type**:** “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
|  |  | |
|  |  | |
| **Algorithms** | Prompt 1  return | |
| **Method Purpose:** | | |
| **Method Header** |  | |
| **Method Variables** |  | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | coachName | %n  “Enter the name of the coach: “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
|  |  | |
|  |  | |
| **Algorithms** |  | |
| **Method Purpose:** | | |
| **Method Header** |  | |
| **Method Variables** |  | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | noOfGames | %n  “Enter the total number of games played for the (teamType) team: “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
|  |  | |
|  |  | |
| **Algorithms** | Prompt 1  return | |
| **Method Purpose:** | | |
| **Method Header** | Public static void main(String[] args) | |
| **Method Variables** | Scanner input  Calendar dateTime  Char start()  String processWinsLosses()  int setTeam()  String setCoach()  int setTotalGames()  int setWins() | |
| **CODE** | | |
| **Prompts** | **Input Variables** | **Input Prompt** |
| **1** | noOfWins | %n  “Enter the number of wins for the (teamType) team: “ |
|  |  |  |
| **Calculations** | **Formulas** | |
|  |  | |
|  |  | |
| **Print** | **Output** | |
| **1** |  | |
|  |  | |
| **Algorithms** | Prompt 1  return | |