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Question 3

Class Employee

Instance Variables

private String first;

private String last;

private String ID;

private Year year;

Constructor

public Employee(String first, String last, String ID, Year year)

//Creates instance of Employee Class

//Creates one Year object

Methods

public void setName(String first)

//sets the first name of the employee to first

public void setSurname(String last)

//sets the surname of the employee to last

public void setNumber(String ID)

//sets the ID number of the employee to ID

public String getID()

//returns the ID number

Class Year

The class of the year in an array of 52 weeks

Instance Variable

private Week week;

Constructor

public Year(Week week)

//array created which represents each week of the year.

Methods

//there are no methods

Class Week

a Week class has an array of 7 Shifts for the 7 days of the week. Amount of hours for employee worked during the Week is calculated and amount of shifts worked in that week

Instance Variables

private Shift shift;

private int TotalHours;

private int TotalShifts;

Constructor

public Week(Shift shift)

// Creates an array of 7 Shifts for the 7 days in the week

Methods

public void SetWeekHours(int CheckIn, int CheckOut)

//Adds up hours for the Shifts worked and sets it to TotalHours

 public void SetWeekShifts(boolean Present)
//Adds up the number of Shifts worked that week and sets it to

TotalShifts public int GetWeekHours()
//Returns TotalHours

public int GetWeekShifts()

//returns TotalShifts

Class Shift

A Shift consists of how many hours worked on a given day, time checked in and out and whether they were present on the given day.

Instance Variables

private int checkIn;

private int checkOut;

private boolean present;

private int Hours;

private String info

Constructors

public Shift(int checkIn, int checkOut, boolean present, String info)

//Creates a new shift which contains a check in time and a check out time, info on the shift being done as well as whether a person was present for a shift

Methods

public void setHours(int checkIn, int checkOut)

// sets it to hours

public int getCheckIn()

//returns check in time if present

public int getCheckOut()

//returns check out time if present

public int getHours()

//returns hours worked if present otherwise = 0

public void setPresent(boolean Present)

//Sets if person was Present for the day

public boolean getPresent()
//returns True if Present