# Laboratory 12 Designs

**RepairJob**

- name : String

- date : String

- hours : double

+ Set(givenName : String, givenDate : String, givenHours : double) : void

Sets the attributes using the given parameters.

+ GetName(void) : String {name}

Gives back the name attribute.

+ GetDate(void) : String {date}

Gives back the date attribute.

+ GetHours(void) : double {hours}

Gives back the hours attribute.

+ GetAmountDue(payrate : double) : double {amtDue}

Computes and gives back the amtDue using the given pay rate and the hours attribute.

**PerformRepairJobLoggingPerformRepairJoblogging**

None.

+ main(args : String [ ]) : void

Gets technician information, adds each repair job, modifies repair jobs, removes repair jobs, logs, repair jobs, and displays the summary report.

+ GetTechnicianInformation(void) : String [ ] {technicianInfo}

Gets the technician name and payrate from the user.

+ AddEachRepairJob(techJobs : RepairJob [ ]) : int {numJobs}

Allows the user to add as many repair jobs as they desire.

+ DisplayJobs(techJobs : RepairJob [ ], numJobs : int) : void

Displays the name, date, and hours for every job the technician currently has.

+ ModifyJobs(techJobs : RepairJob [ ], numJobs : int) : void

Allows the user to change names, dates, and hours on as many jobs as they desire.

+ GetSearchValue(void) : String {searchValue}

Gets the search value (a name) from the user.

+ PerformSearch(searchValue : String, techJobs : RepairJob [ ], numJobs : int)   
: int {loc}

Identifies (if possible) the location of the matching (searchValue) name in the techJobs.

+ ModifyFoundJob(techJobs : RepairJob [ ], numJobs : int, loc : int) : void

When the searchValue was found, allows the user to enter a new name, date, and hours.

+ RemoveRepairJobs(techJobs : RepairJob [ ], numJobs : int) : int {numJobs}

Allows the user to delete as many jobs as they desire.

+ DeleteFoundJob(techJobs : RepairJob [ ], numJobs : int, loc : int) : int {numJobs}

When searchValue was found, allows the user to delete the corresponding job.

+ LogRepairJobs(techJobs : RepairJob [ ], numJobs : int, technicianInfo : String [ ])   
: void

Appends each name, date, and hours (on separate lines) to the technician's log file.

+ DisplaySummaryReport(techJobs : RepairJob [ ], numJobs : int, technicianInfo : String [ ]) : void

Displays the report heading, processes each job, and displays the totals.

+ DisplayReportHeading(technicianInfo : String [ ]) : void

Displays the company name, technician info, and column headings.

+ ProcessEachJob(techJobs : RepairJob [ ], numJobs : int, technicianInfo : String [ ]) : double [ ] {totals}

For each tech job, updates the totals (hours and amtDue) and displays job summary.

+ UpdateTotals(totals : double [ ], techJobs : RepairJob [ ], cnt : int, technicianInfo : String [ ]) : void

Updates the total hours and total amt due for the current job.

+ DisplayJobSummary(techJobs : RepairJob [ ], cnt : int, technicianInfo : String [ ])   
: void

Displays the name, date, hours, and amtDue for the current job.

+ DisplayTotals(totals : double [ ]) : void

Displays the total hours and total amtDue.