ITC Group project

Sample solution

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| --- | --- | --- |
| input | process | output |
| Check in  Cashier  Manager  Trollry bois  Bakers  Self packers | Calculate hours worked=check out – check in  Display employees that are permanently employed and those on contract  Cashier enter name and code and display hello cashier name hope you have a productive day  Two variables  Items and items on display  Items==itemsondisplay  If customer purchases item that items equivalent itemsondisplay should be subtracted the amount of items bought and if(itemsondisplay<10) send message to manager to alert the selfpackers to pack that itemsondisplay<10 and subtract that amount from the stock  And if stock<50 send message to manager saying need to order more stock  If stock arrives add to stock  Salaries  Job type manager=hours work\*40  Cashier=hourswork\*30  Bakers=hoursworked\*35  Self packers=hoursworked\*15  Trolleybois=hoursworked\*15 | Hoursworked  Itemsondisplay  Stock  Salaries for different workers |

Modules

Employees

* employmentInformation (firstName,LastName,idNumber,employeeNumber,residence,permanent,contract,position,rate)
* hoursWorked(employeeNumber,normalHours, overtime)
* salary(normalHours\*rate,overtime\*rate)

Stock

* sellingOfStock(cashierProcess)
* stockTracker(availableStock, incomingStock,)
* orderingStock(lowStock,supplier)

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| --- | --- | --- |
| input | Process | output |
| idNumber | Display firstName,Lastname,residence,permanent or contract,position and rate) | firstName,Lastname,residence,permanent or contract,position and rate |
| employeeId | Display |  |
| hoursWorked | If(hoursWorked=<40)then  Salary1=hoursWorked\*rate  Elseif (hoursWorked>40)then  Salary1=40hours\*rate  if (hoursWorked>40) then hoursWorked-40=overtime  Salary2=overtime\*rate  Monthlysalary=salary1+salary2 | Salary1  Salary2  monthlySalary |
| item | If(item is scanned)then display its name and price on screen  If(item barcode is scanned)then  Stockavailable=stockitem-item | Price and item name |
| managerCode | If(managerCode=42069)then display stockTracker(availableStock, incomingStock)  If(managerCode=42069)then display |  |
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