ITC

Group assignment

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Employee Module

empID= int  
empName = char  
EmpType = int  
EmpAge = int

emp {  
 Start   
 Get empID, empName  
 display empID and empName

End

}  
//This function will display the employee name and ID, this will be stored in the employee’s array  
An example scenario of this module would be  
A manager going through the array and looking for the employee, he/she would look the employee up, by either their name or their employee ID. After finding the employee, the manager can then find out \*/whether or not the employee is a permanent employee or a contract employee

employment(num) {

get empID,EmpType

contract= 0  
permamant = 1

if EmpType== 0  
then display  
“Contract Employment.”  
Else if EmpType= 1  
then display  
“Permanent Employment”  
End if  
End

}

/The function above displays the type of employment for an employee, which will display if the \*/employee is a permanently employed worker or a contract employed worker.

employee emp               //creates an object of the type employee  
emp\_count=int        //keeps track of number of employees  
employee empNum[]         //array of employees that can increase or decrease in size

CASE employee hired:  
                CALL add\_emp(arguments: name,age,)                      //adds a new employee  
            CASE employee fired/quit:  
                CALL remove\_emp(arguments: employee id)                                //removes an employee

            CASE employee details requested:  
                emp = CALL get\_emp\_details(arguments: empID);                     //requests the data in from employees  
             
                DISPLAY (empName, empType ,empAge)   //displays employee info

//This function will display the employee name and ID,age, this will be stored in the employee’s array  
An example scenario of this module would be  
A manager going through the array and looking for the employee, he/she would look the employee up, by either their name or their employee ID. After finding the employee, the manager can then find out whether or not the employee is a permanent employee or a contract employee

Salary Module

hoursWorked=num  
grade=num  
empHours {

Start  
get empID,empName  
hours=0  
input hours  
input days  
  
End

}  
//The function above will get the hours worked and store it in a database connected to a spreadsheet.

gradeofWork{

Start  
get empID,empName  
input grade  
End  
}  
//The function above is where the grade of work is entered and stored

wages {

Start  
get empID,empName,grade,hoursWorked  
calculate wages  
increase wages   
if grade== >4 by 5%  
end if  
averagehrs= hoursWorked(hours/days)  
if averagehrs == <40   
then decrease salary by 5%  
end if  
End   
}  
 //The function above will be used to calculate the wages of the employee. If the grade of work that the /employee receives is above 4 then the salary will increase by 5%. Furthermore, The salary will decrease /if the hours worked are less than 40. This function will call upon the hoursWorked function and get the \*/average of the hours by dividing the hours by the days

 Product/Stock Module  
START

product       //function that stores product information  
    {  
       productID=int  
       name=char  
       price=num  
       amount=num  
   
  
    }  
          
product prod               //creates an object of the type product

       product prodNum[]         //array of products that can increase or decrease in size  
     
   prod\_count = num       //keeps track of number of products

   sales\_FOR\_day=int //keeps track of total sales during the day

 checkStock{ //function keeps track of stock  
Start  
read product  
display product(amount)  
  
}

        prodNum = checkStock()          //checkStock checks if there is no product or whether the product is running low  
        IF product=null  
 then  
            DISPLAY ‘product(name) ‘+ " is low and needs to be ordered!");            //if a product is running low, this message will be displayed  
       end if

            CASE products sold:  
                CALL products\_sold(arguments: item, price,number of products)       //processes transactions

Flowchart link below:

https://app.diagrams.net/?lightbox=1&highlight=0000ff&edit=\_blank&layers=1&nav=1&title=ITC%20Assignment#R7V3be5s4Fv9b9iFfZh%2Bajzv4Mbd2MtvJdDbZTbsv%2B2Ej22wAUSE38fz1K4G4ScLGsYUdu31IjQAZnfv5nSN8Zl7Hr5%2BQn85%2FhwGIzgwteD0zb84Mwxs55C8dWBYDrmsXAzMUBsWQXg88hH8BNqix0UUYgKx1IYYwwmHaHpzAJAET3BrzEYIv7cumMGp%2Fa%2BrPgDDwMPEjcfQpDPCcLctw6%2FFfQTibl9%2BsO6PiTOyXF7OVZHM%2FgC%2BNIfP2zLxGEOLiU%2Fx6DSJKu5IuT3fLp%2Bjzs%2FPptz%2Bz7%2F6%2Frv7xeP%2FvD8VkHze5pVoCAgl%2B89TL599%2BfUT3aXKZ2P%2F553f3j%2FmX%2Bw%2BGWcz9w48WjGBssXhZUhAEhKDsECI8hzOY%2BNFtPXqF4CIJAP0ejRzV13yGMCWDOhn8H8B4yaTDX2BIhuY4jtjZngtkhMjgAk3AiuvYorCPZgCvWD2bjy6wISyMfJ8AjAFGS3IBApGPwx9tifKZYM6q62rikw%2BM%2FhuwWWTFGMzCROBHTW1Kupd5iMFD6ucEeSEq3KbsFCaYkV0nS7uaRX6WMUZlGMHnSivo1ZWIaxsz5QdAGLyuJCM7a1pMoZhFsdnhS62eeqlz84ZqlrdtQ3i5EhjvXAlWCfdaJbD2pQSrnrrBirskXWD6gHF6R47JtE5E1nM1RuTTjH4qr7iN08dlCgTeEalO6UdCWj%2BKQARnyI%2FJfSlAIXlqgPhzX%2BoT6%2FRrKCXRzZ5a4qjSEvcYlWTnws9u%2FQLDBNfctO02N03Nbk9RaCm7i2NU9RhbaJWoVj%2BZ15d5VQC4J%2BZZoknMCntYWDuNkPajGCXMYTxeZHu0YHqbbJX%2FblowT2LBKlO3cxPmCZRcktSEpxxZH26TqAiUrmEEqatIYEK1YRpGETfkR%2BEsIYcTQsrceVBqhSQXuWQn4jAIclWS8aStXqrYYrlWmy2eyBZLwhVDFVN0MfpK4IkxxTC1vTHl%2FmX68Gny%2B%2BwzmMZf%2F7p8jD7fTj941iElhpyF78%2BBtcFvI5HfpctwONtn8rlL4duUuYxSLhrcu72%2FEX3EJpmkKtnnYyNLGzDSlQu%2F5hyD8Dfjp451ukqkX9ftFkd13eVYtbuIadXCdo2ldEh2X450aoDDpXqaDBHRFSEiHQQUQ6Xj1ICR6CjkV%2BpDwSKrH7TBkLCAPXg0pMRJyP%2F3frwPNGT3GsK5iNqgNDXEHtRH6KKLPUoN0SWhVMeVzl41RIJxMA3R5mSV2RNEz4TSx6AO5ugA9UFM424TkdwH4XArcpX0c21LpJ8s5jQdZfQTE64wCXFI0lei%2BoKVb4o0NR6dYo3gBGQ9YKCxP3me5dz5Y4GjkKbOSnnAp7x14XV%2Fcb8uQm2XAmUPCYlQ7mlHEsMiAyIU8sQ%2BET%2Fr9PWzBQH252fF5PhOHokG%2FlJEV9%2Bjv60gidJWGTJ%2FO7CtOqR6nEq9GG0p7R1FHY%2FDKBxbWVWnY2EnkmIrYqDFoyaeNjDIpEtS8ukZ7YPzA1qWC2mVjo7TU44fU2OV20VL4POGxToFGYXDqYM9kli4kcTC7aRa1%2BHoxBSbBEuTBZEbUFE0GWdpThje%2B7z4M0lx7%2BDjYiG3M529%2BxpDTK2P0lSVy%2BqBdWxr1LZkiJhsl1gHsz5HEXVxNsmSVEWH1gQxSz%2F0FgIFJoqrbuqOpDlt2HK1IWbu%2B7BQhKpo%2BZXef2GXh9%2FYdPnBzWvraNnilErLZve2bNtmlx0VcQFx6xetXSLkLxuXpfSCrPt7BFjJ1bm2%2BA1vIB%2BKZ9ht8GiIsEaYTBDwMxo6sthFG9Olkyvt9xfHCBirU65ij9ZbhC4OvNVIgVfV2%2F1fUux7YOPt7sVWv4b4a2mNyedvtdkmR7Whpgelna7su96y7rWx35t994a175uaZaGd3TNXm2XhBtezVt%2FAByWb3%2BAaQxh%2BEfYJwDEZfgEs9fbf0GWKSEIJGMz1RuNEBJcxXTs7R76sPl0OpuXA4zxHeKYRfJnMfYRLyMfnBqfERbDRRTLBIUyoos59nJMkf%2FogzNIoVyg8p2JQPAqgH5O8h0PzaS1Vu7u5uGg8XFo%2F24Y%2B7IyEPfk%2FzpGR8Wn%2Bj95BRCpMZmTUro8ec%2BtKGwzlggeJQNHFk5E5cXYgGa5yxemzDKIfGMAyj6KJdr33MRVtvOCSBoc3EKoRXlPEvQ64jdDgDK9t7N3uOieiAFbvJiln2%2FBry7Z%2BGZJb%2BBNi4BN%2BRyXrJawcTvMaEXGXzVR1IXbMcQQ4Ja93Tl%2FAnu%2BK3iGbRThsR%2F3%2FCoACrhLrySpPpoR86vy2JautS8LFlXFiEP4ohz42okEEUgQyQjAaWpXxnhgYZhiiPBMoAj8WIGayCPHu5ry%2BkCpb1niuxlP8DBKJzHD9TbZMV6VRosKtVmIduSs5AeCpSBDfmJ9UwkdPxAv6FpaoKX90%2BGUOEBjXucgiAzR%2FySEtufwFVP6uWa7CPub9iXQ21nVbynEhw35%2BKicOvThspEKNCi%2F7qjInLmYgY0l1qiy1l2kUdQQxTXHzZZBr6JPn6VcCsezZ2Y3UaRcpGv0y%2BkQ1FpvfXqbo7z77KiHKCEyxQj3T%2B3RMVY6zpWjqvKJ9ImVsW82mxmpTarlJVbCJqvOx0ng3GPiAc8u2TWBDjUhISL8OzFcWP%2FIb5TUZYCaD5NXt%2F7JPJHGz2bLWJ25FlWT3SsWVycSwVrlSGQKry16SFMFgMcF1CljneuUlSSO5E8%2BmKJysOO3HREBE7VWZBLZFct%2Bqr3ea1HUvyVCH2djvKHfkX81ShxRN%2BsnCDHXJo30ifb32ttv9%2BvX1GpY%2BtEEUuwSOIMowPfeiDbTQJEQSZ9hDKotzKiF5733mzrbB%2B5bWSwQjSOIb1MFAp7cOqQAToj9giPJ3sr61MH1YLprvx67t0bronO9w26HWiHlQVUHmY61zxrdzkXGt138aHGDBuBq%2FzuhrgS8qFOmi%2FKY%2BTUwHxzy7L%2FMU1sRO5OUyTu%2FUyto2tdqSIWICdFP1Y7AKGAMfO9%2BpcfyqxKcqrqy%2FYmBNkkXaPHBeua1%2BpRpcgOZ1I093ZaaaWQuTKUSxX1z33ksvAyHEfJuYofU1zTqfEOxQovqUYiZzMHkmUc7keXdC9QxAmhdXkE%2Bn1eD0rKxWZOybpNvdforZuq4wHl8zZQjLwGLmHkHWs3sklI%2FVvJ7tXj1m4rcG7%2B71ix0MPoztSIfNYFPrieysZ%2FCIz7U6GLzxbiLhi7w1u4nW3KCoqdwVyzW1l%2Frl74LslftSPvtjEH2BWZh7I%2FNmDDGGFGrnN65gyCXv%2FdrQ2whZVsipdqFb1AGgCRNc5wDCW8MSrI8p%2BgkZkqwuvvXENP%2FdWZE%2BmaLbe3OiN5Bl6vvC0o23wXi8CXTWbIMRbmDEUmtPvBMp%2F24geYrKv4LkDd3j7oobUe%2BmjeyWmOIFnWZHiAeYhFnua94B5MH7BFOaokqbmPiAc4dOQcwd6t1D54xrv9CyPHH75Cmc7wuY19xpekkzshLLSgAI8pQTkj%2FjotMtAAgEf6tv2hnbVwJdqvhnCT%2FcIfsRHVl1faSOfSLY%2BE2gspi2999ZjAAJs%2FxxPhVVIuaSyLz21Zl9Q%2BcidpaFYkpfZGPzBUdTK%2FvSW02AIvnV9dp6kuYGyVtK3yjmRfepj2FXI8pglkr6c1EDR6%2BiY5GX0d9I7IxO9t%2BuyvthexLDlf0YzsD8kdWhurFOmkXuCu3MZ6WXMJQTgXwHA0M6r1tn8pmS8xxmz%2BF3kORuCxYdZHRWPwJ5d3vhyRaU7jFE4CdG2tdPCr8%2BI9uC48riHIWWunsPTnMHGVf3ftMetfPza5hQ5J39iCDbBX5%2B3nvX2vGX%2F3hcS7ZvRrZJS2EkJdZqupsgzlPimv0k39vPsfj0eMn%2F4o5KZpLD%2BheSi6S1%2Fplp8%2Fb%2F

Readme: The project above is a layout of essential process for a retail shop, such as its payroll, salary’s and stock management. These essential processes have been turned into modules and formulas, broken down in a form far easier to understand and make sense of.

Nixon Nakutwima- Modules, Pseudocode,Flowchart

Setson Neumbo-Functions,Flowchart  
Priscilla Niigambo-Flowchart,Functions  
Charlene Rhyn-Pseudocode