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**De La Salle University- Manila**

**Gokongwei College of Engineering**

Project Activity Number : 1

Project Activity Title : Burger Town (Restaurant POS System)

Date Performed :

Date Submitted :

Instructor : Engr. Leonard U. Ambata

Name of Student : Mayuga, Keenan Eliot L.

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Subject / Section : LBYEC2A EQ4

Remarks:

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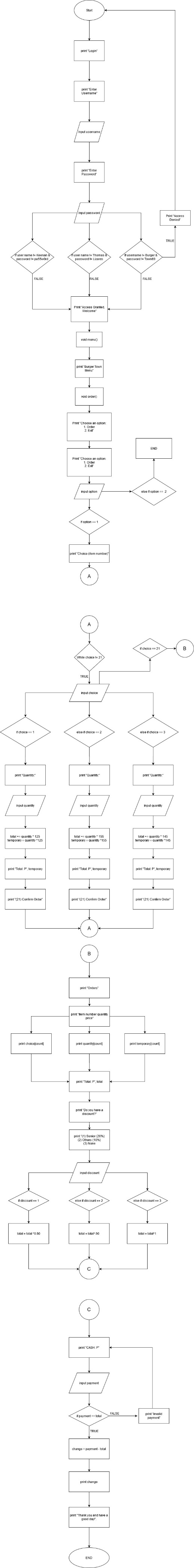
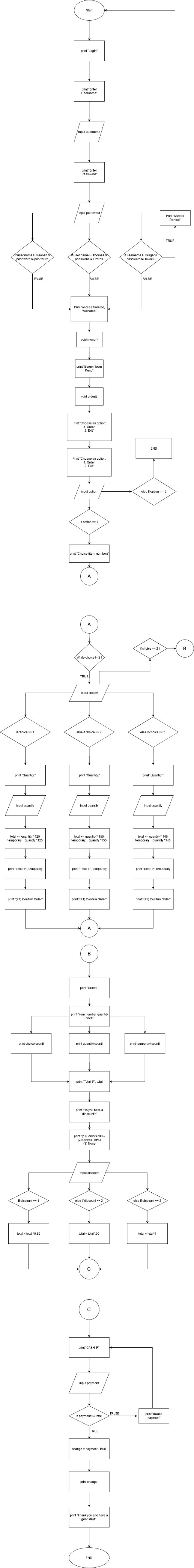
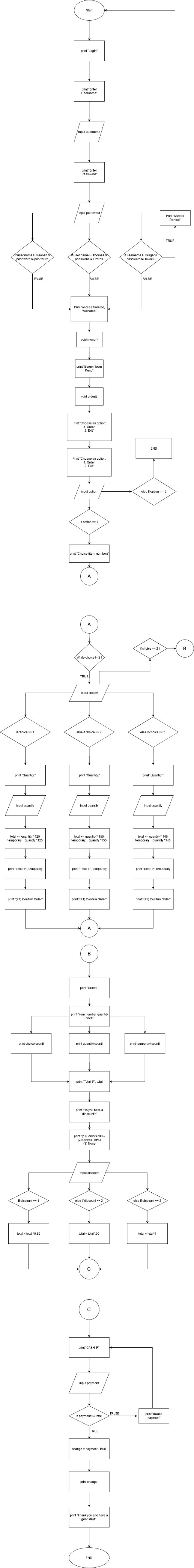
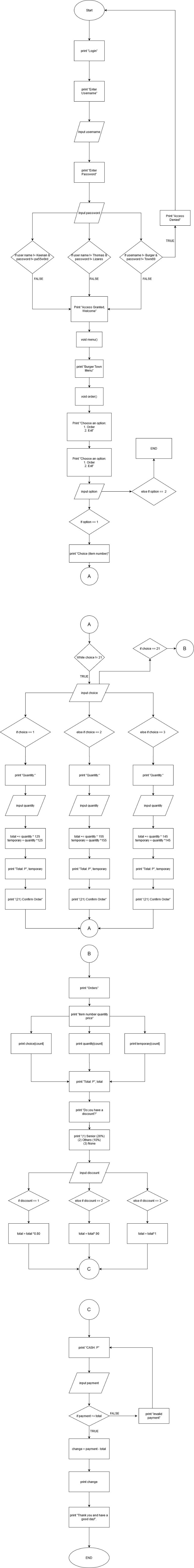
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Instructor’s Signature : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem #1**

Create a basic Restaurant Point of Sale software using C-Language. Your restaurant must have at least 20 items to choose from.

**Flowchart:**



**C-Language codes:**

#include <iostream>

#include <string.h>

#include <conio.h>

#include <stdlib.h>

#include <stdio.h>

#include <iomanip>

using namespace std;

void menu();

void order();

int main(void){

char username[10], password[8], x;

int i;

cout<<"---------------------------------"<<endl;

cout<<"--------------LOGIN--------------"<<endl;

cout<<"---------------------------------"<<endl;

cout << "Username:";

cin >> username;

cout << "Password:";

for (i = 0;;){

x = getch();

if((x >='a' && x <= 'z') || (x >='A' && x <='Z') || (x >='0' && x <= '9')){

password[i] = x;

i++;

cout << "\*";

}

else if(x =='\b' && i >= 1){

cout << "\b \b";

i--;

}

else if(x =='\r'){

password[i]='\0';

break;

}

}

if (!strcmp(username, "Keenan") && !strcmp(password, "pa55w0rd")){

cout << "\nAccess Granted, Welcome!\n";

system("PAUSE");

system("CLS");

menu();

order();

}

else if(!strcmp(username, "Thomas") && !strcmp(password, "Lizares")){

cout << "\nAcccess Granted, Welcome!\n";

system("PAUSE");

system("CLS");

menu();

order();

}

else if(!strcmp(username, "Burger") && !strcmp(password, "Town69")){

cout << "\nAcccess Granted, Welcome!\n";

system("PAUSE");

system("CLS");

menu();

order();

}

else{

cout << "\nAccess Denied...";

}

}

void menu(){

cout<<" |\ /| /|\_/|"<<endl;

cout<<" |\||-|\||-/|/|"<<endl;

cout<<" \\|\|//||///"<<endl;

cout<<" \_..----..\_ |\/\||//||||"<<endl;

cout<<" .' o '. |||\\|/\\ ||"<<endl;

cout<<" / o o \ | './\\_/.' |"<<endl;

cout<<" |o o o| | |"<<endl;

cout<<" /'-..\_o \_\_.-'\ | |"<<endl;

cout<<" \ ````` / | |"<<endl;

cout<<" |``--........--'`| '.\_\_\_\_\_\_.'"<<endl;

cout<<" \ /"<<endl;

cout<<" `'----------'`"<<endl;

cout<<"---------------------------------------------------\n"<<endl;

cout<<"--------------WELCOME TO BURGER TOWN!--------------\n"<<endl;

cout<<"---------------------------------------------------\n"<<endl;

cout<<" ---MENU--- \n";

cout<<" -BURGERS- \n";

cout<<"(1)141 Special (Cheeseburger) - P125\n";

cout<<"(2)141 Deluxe (Double Cheeseburger) - P155\n";

cout<<"(3)The 75th (Quarter pounder burger) - P145\n";

cout<<"(4)Gulag Shower (Fish Fillet Burger) - P155\n";

cout<<"\n -PIZZAS- \n";

cout<<"(5)Bacon Machine Pizza - P250\n";

cout<<"(6)Foley's Cheese Pizza - P255\n";

cout<<"(7)Pepperoni Pizza - P250\n";

cout<<"(8)J. Allen's Hawaiian Pizza - P285\n";

cout<<"\n -MAINS- \n";

cout<<"(9)Shepherd's Steak - P175\n";

cout<<"(10)Nikolai's Rib-eye - P165\n";

cout<<"(11)Dunn's Chicken and Rice - P110\n";

cout<<"(12)Wade's demise (Grilled Pork Chops) - P130\n";

cout<<"(13)Gary Sanderson's Spaghetti - P85\n";

cout<<"(14)8 pcs Chicken Nuggets - P105\n";

cout<<"\n -ADD-ONS- \n";

cout<<"(15)Extra rice - P25\n";

cout<<"(16)Fries - P35\n";

cout<<"\n -DRINKS- \n";

cout<<"(17)Bottled Water - P20\n";

cout<<"(18)Iced Tea - P35\n";

cout<<"(19)Lemonade - P30\n";

cout<<"(20)Chocolate Milkshake - P95\n";

}

void order(){

int option, count=0, choice[100], quantity[100], discount;

float total, payment, change, temporary[100];

cout<<"---------------------------------------------------\n";

cout<<" -OPTIONS- \n";

cout<<"---------------------------------------------------\n";

cout<<"(1) Order\n";

cout<<"(2) Exit\n";

while (option !=1 && option !=2){

cout << "Enter an Option:";

cin >> option;

}

if (option == 1){

while (choice[count]!= 21){

cout << "\nChoice (Item Number):";

cin >> choice[count];

if (choice[count] == 1){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 125;

temporary[count] = quantity[count] \* 125;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 2){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 155;

temporary[count] = quantity[count] \* 155;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 3){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 145;

temporary[count] = quantity[count] \* 145;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 4){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 155;

temporary[count] = quantity[count] \* 155;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 5){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 250;

temporary[count] = quantity[count] \* 250;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 6){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 255;

temporary[count] = quantity[count] \* 255;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 7){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 250;

temporary[count] = quantity[count] \* 250;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 8){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 285;

temporary[count] = quantity[count] \* 285;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 9){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 175;

temporary[count] = quantity[count] \* 175;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 10){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 165;

temporary[count] = quantity[count] \* 165;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 11){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 110;

temporary[count] = quantity[count] \* 110;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 12){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 130;

temporary[count] = quantity[count] \* 130;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 13){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 85;

temporary[count] = quantity[count] \* 85;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 14){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 105;

temporary[count] = quantity[count] \* 105;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 15){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 25;

temporary[count] = quantity[count] \* 25;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 16){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 35;

temporary[count] = quantity[count] \* 35;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 17){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 20;

temporary[count] = quantity[count] \* 20;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 18){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 35;

temporary[count] = quantity[count] \* 35;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 19){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 30;

temporary[count] = quantity[count] \* 30;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

else if (choice[count] == 20){

cout << "Quantity:";

cin >> quantity[count];

total += quantity[count] \* 95;

temporary[count] = quantity[count] \* 95;

cout << "Total: P" << temporary[count] << "\n";

cout << "(21)Confirm Order\n";

count += 1;

}

}

cout << "\n ORDERS\n";

cout << "Item Number Quantity Price\n";

while (count > 0){

count -= 1;

cout << choice[count] << "\t\t\t" << quantity[count] << "\t\t\tP";

std::cout << std::fixed << std::setprecision(2) << temporary[count];

cout << "\n";

}

cout << "\nTotal P";

std::cout << std::fixed << std::setprecision(2) << total;

cout << "\n\nDo You Have a Discount?\n";

cout << "(1) Seniord Citizen Discount (20%)\n";

cout << "(2) Others (10%)\n";

cout << "(3) None\n";

while (discount < 1 || discount > 3){

cout << "Discount Option#:";

cin >> discount;

}

if(discount == 1){

total = total\*0.80;

cout << "\TOTAL(with discount): P";

std::cout << std::fixed << std::setprecision(2) << total;

}

else if(discount == 2){

total = total\*0.90;

cout << "\nTOTAL(with discount): P";

std::cout << std::fixed << std::setprecision(2) << total;

}

else if(discount == 3){

total = total\*1;

cout << "\nTOTAL: P";

std::cout << std::fixed << std::setprecision(2) << total;

}

while (payment < total) {

cout << "\nCASH: P";

cin >> payment;

}

if (payment >= total){

change = payment - total;

cout << "\nCHANGE: P";

std::cout << std::fixed << std::setprecision(2) << change;

cout << "\n\nThank You and Have a Good Day!\n\n";

system("PAUSE");

}

}

}

**Output Screenshots:**

