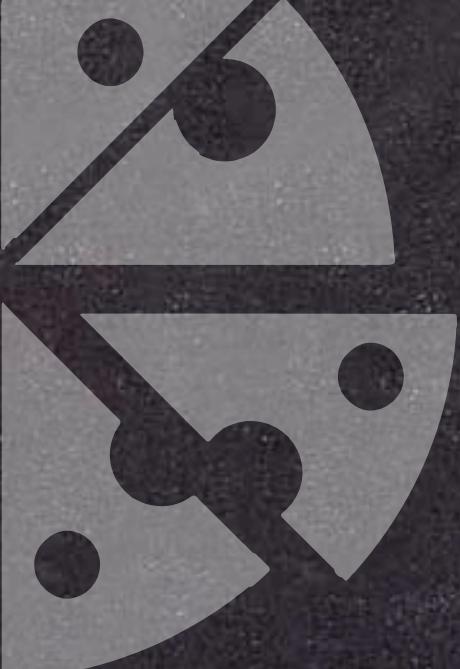




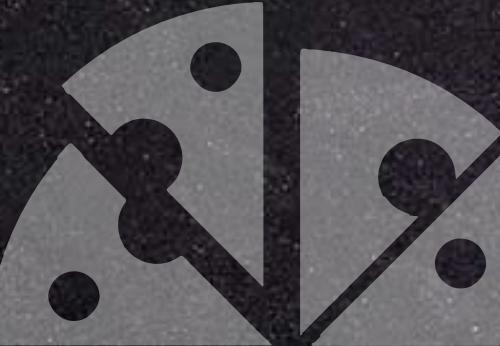
Peace ZZZ

DON'T REGRET BUT JUST NOTICE WHAT YOU ATE



OBJECTIVE

There are a few objectives to be achieved by the system during this period:

- To display the type of menu of pizza restaurant based on the output given.
 - To display additional order according to the customer selection.
 - To display the total price according to the customer order.
 - To display customer receipt.
- 



Our Menu ,
But Your
Choice .



Type Pizza

- 01 Chicken : RM 30
 - 02 Beef : RM 40
 - 03 Vegetable : RM 35
 - 04 Seafood : RM 45
- 
- 

PIZZA SIZE PRICE

RM 15

Large size

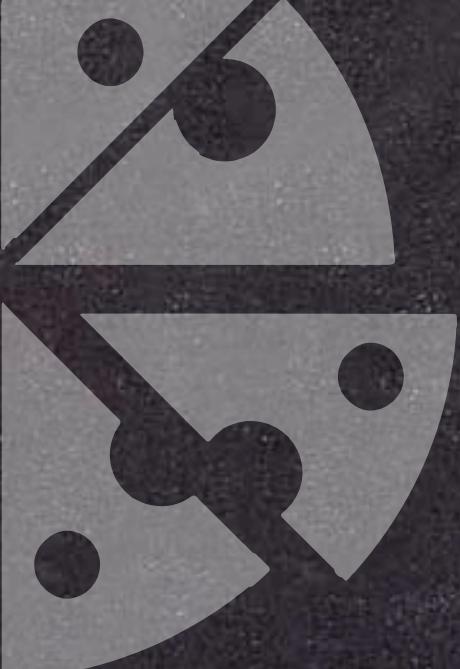
RM 20

Medium size

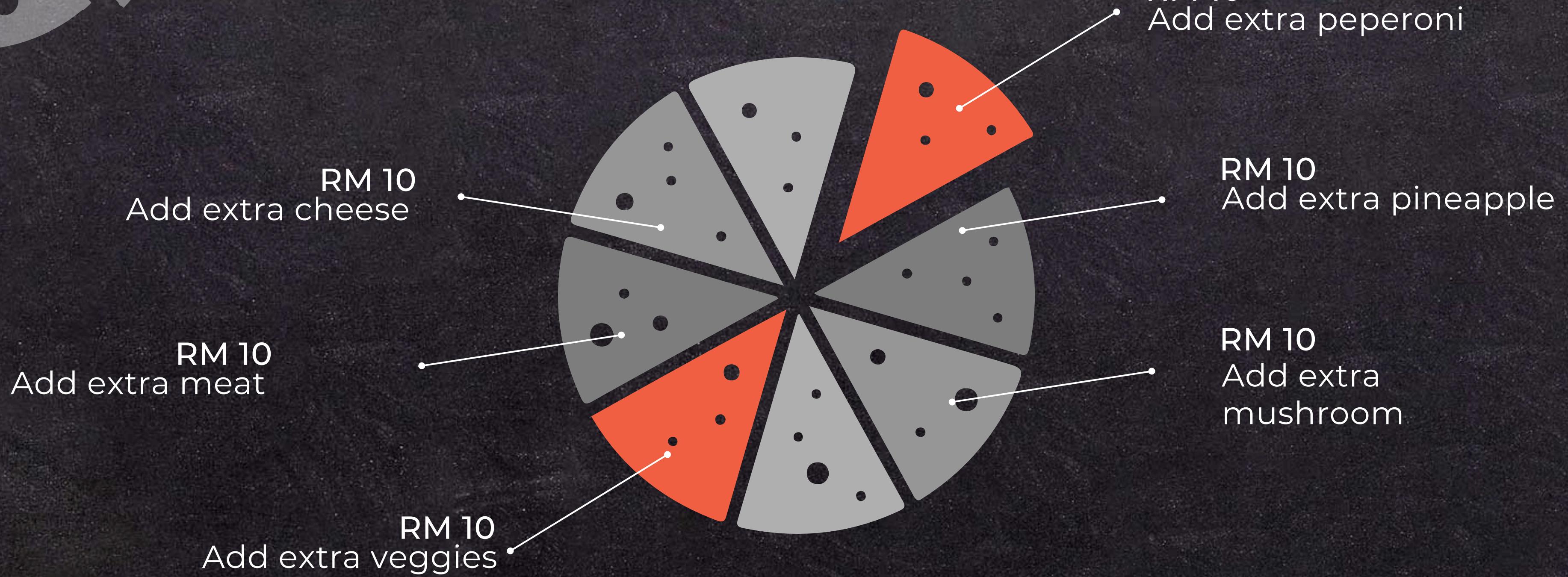
No Charge

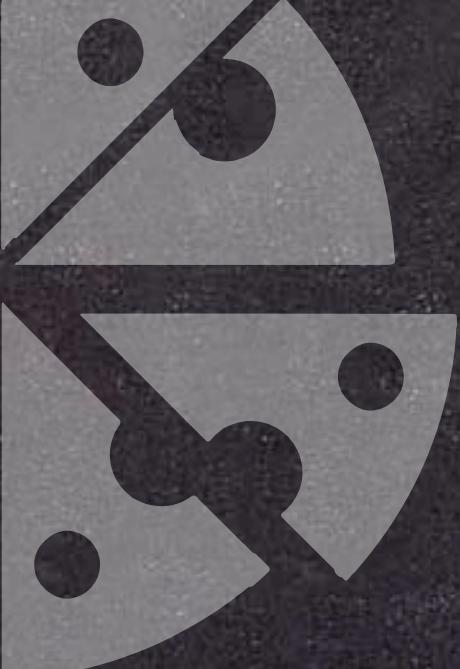
Small Size





ADD-ONS





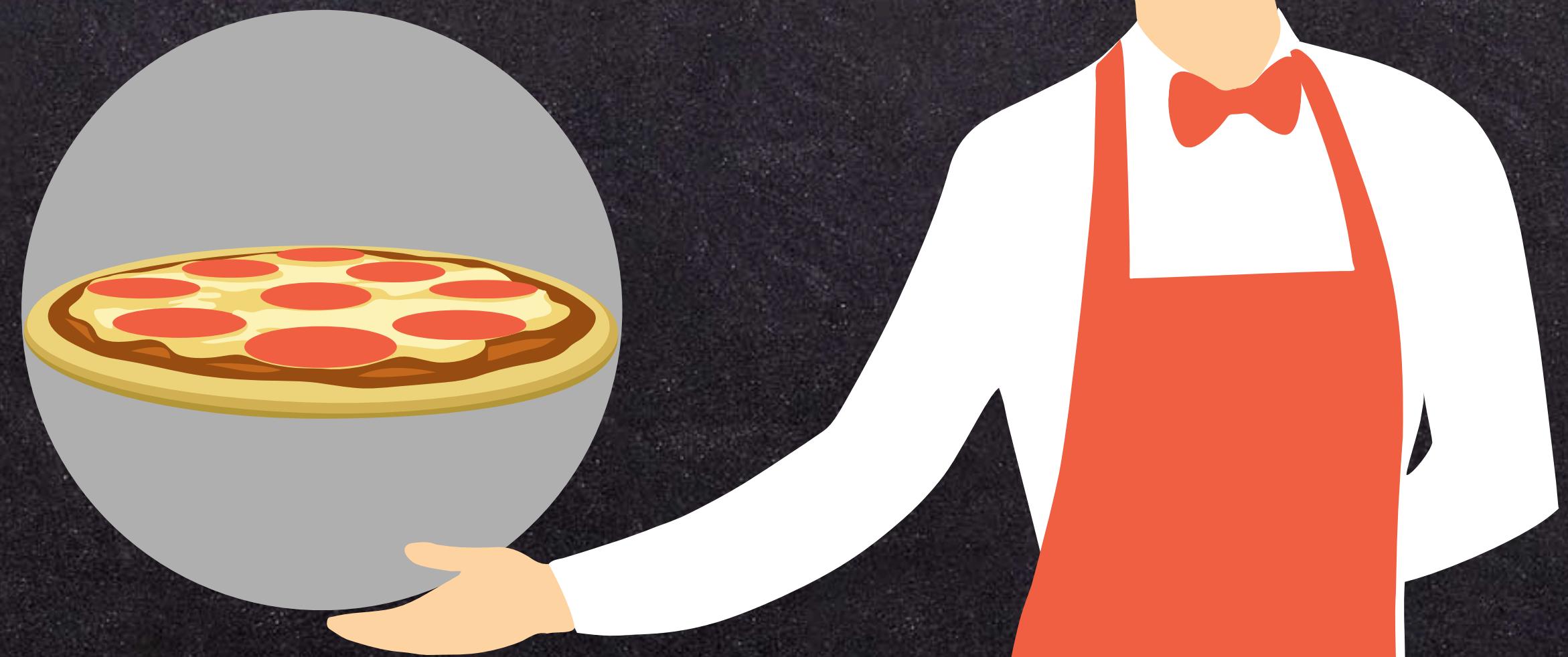
PIZZA VOUCHER

With vouchers

If the customer have a vouchers, the total payment will subtract with RM5 of the vouchers.

Without vouchers

If the customer don't have any vouchers, the total payment no change.



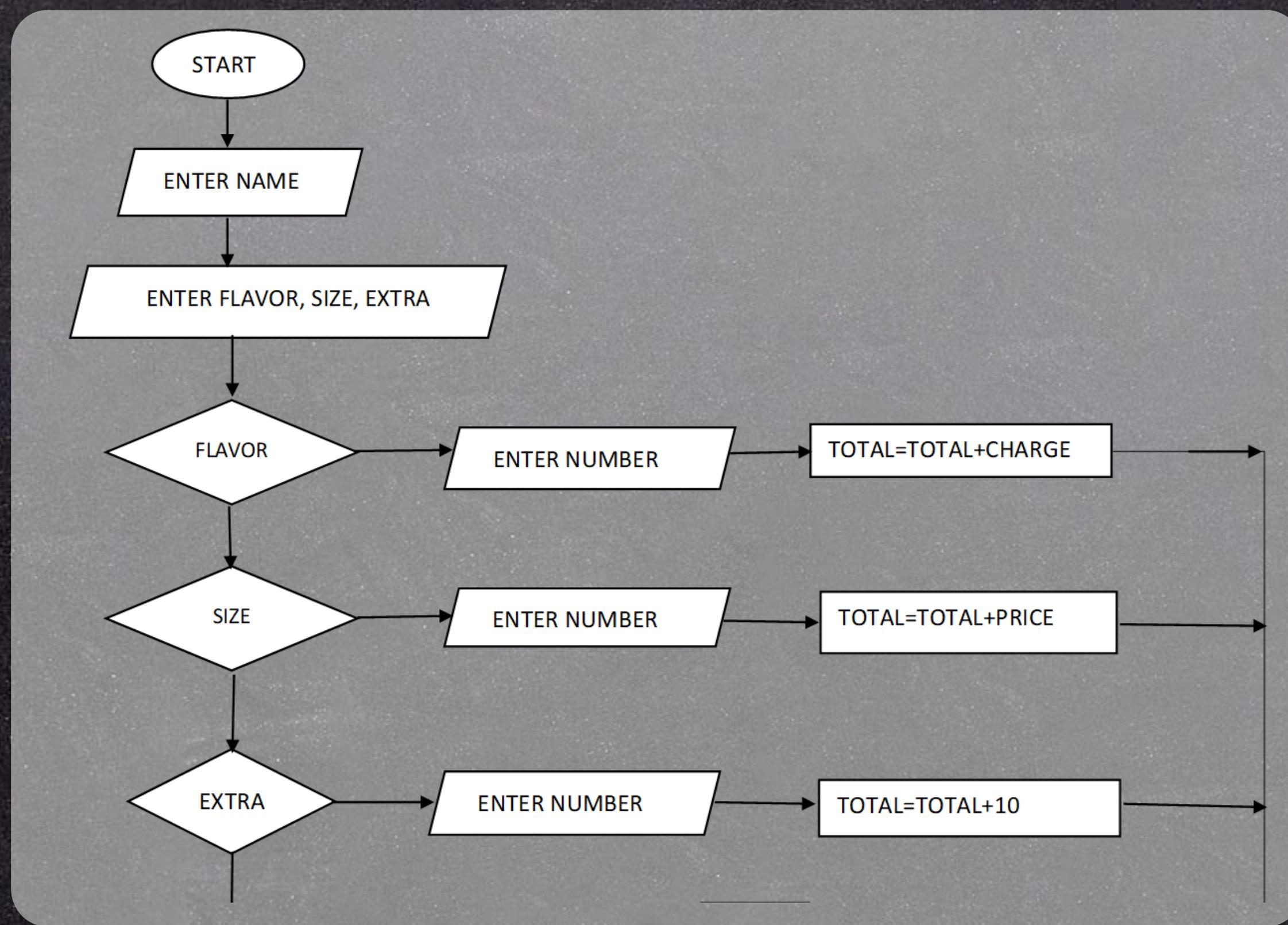
ANALYSIS

MENU	SIZE	VOUCHERS	PRICE(RM)
Chicken	Large	Yes (-5)	45.00
		No	50.00
	Medium	Yes (-5)	40.00
		No	45.00
	Small	Yes (-5)	25.00
		No	30.00
Beef	Large	Yes (-5)	55.00
		No	60.00
	Medium	Yes (-5)	50.00
		No	55.00
	Small	Yes (-5)	35.00
		NO	40.00
Vegetarian	Large	Yes (-5)	50.00
		No	55.00
	Medium	Yes (-5)	45.00
		No	50.00
	Small	Yes (-5)	30.00
		No	35.00
Seafood	Large	Yes (-5)	60.00
		No	65.00
	Medium	Yes (-5)	55.00
		No	60.00
	Small	Yes (-5)	40.00
		No	45.00

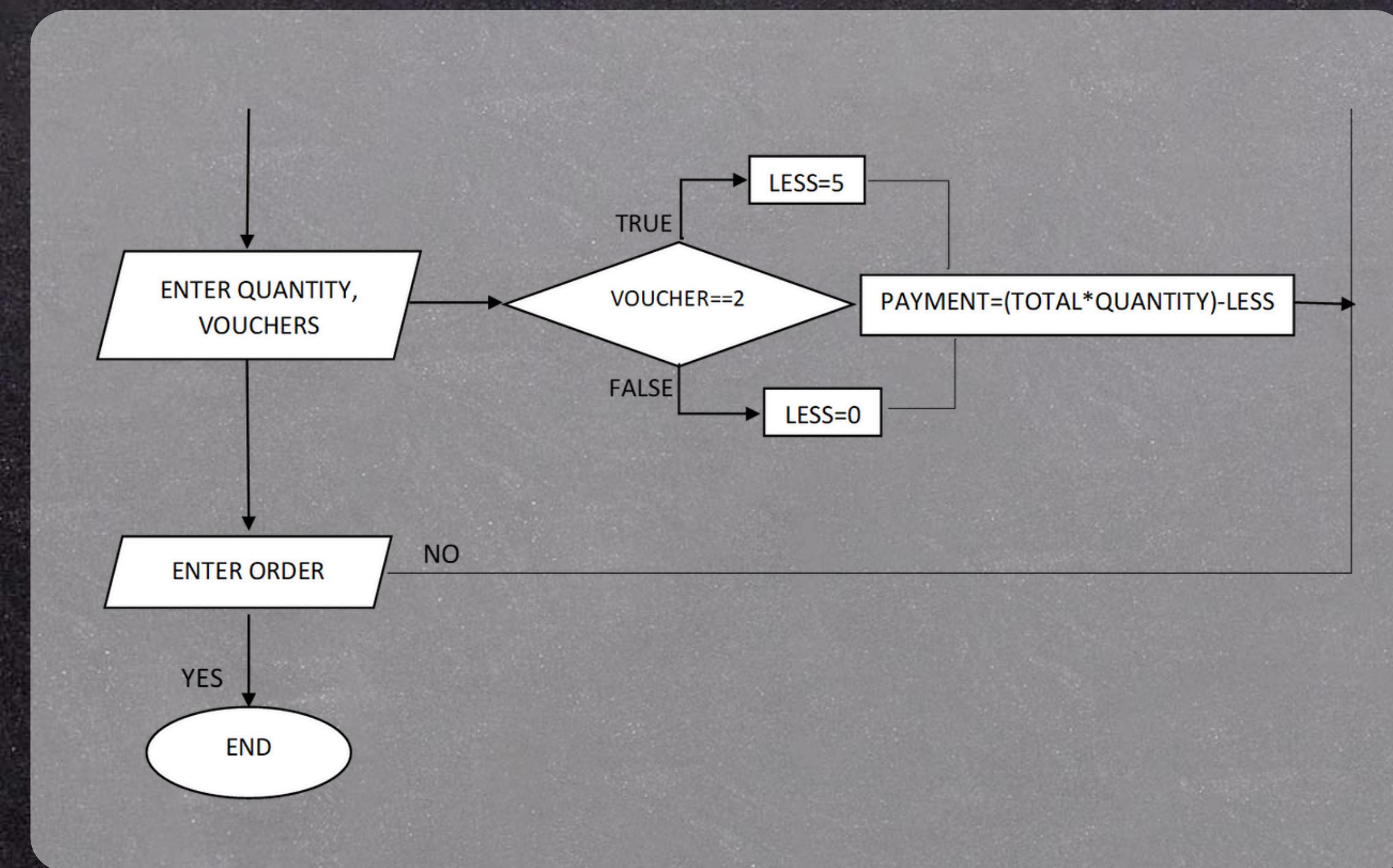
Add on	Price
Pepperoni	+RM10
Pineapple	
Mushroom	
Veggies	
Meat	
Cheese	



FLOW CHART



FLOW CHART



FUNCTIONS	DESCRIBE
<ul style="list-style-type: none">• This function with return value and no parameter• char getOrderChoice() return choice;	char getOrderChoice() { char choice; cout << "\n\t Would You Like To Order [Y/N] :"; cin >> choice; while (choice != 'y' && choice != 'Y' && choice != 'n' && choice != 'N') { cout << "\n\t\t\tYou enter wrong input" << endl; cout << "\n\t Would You Like To Order [Y/N] :"; cin >> choice; } return choice; }

- This function is the function with no return value and no parameter
 - void displayMenu()

- This function is the function with return value and no parameter
- string getName()

return name;

```
string getName()
{
    string name;
    cout << "\n Your Name:";
    cin >> name;
    return name;
}
```

- This function is function with return value and no parameter
- int
getPizzaChoice()

return choice;

```
int getPizzaChoice()
{
    int choice;
    cout << "\nPizza Flavor: \n (1)Chicken \n
(2)Beef \n (3)Vegetarian \n (4)Seafood :";
    cin >> choice;
    return choice;
}
```

- This function is function with return value and no parameter
- int getPizzaSize()

return size;

```
int getPizzaSize()
{
    int size;
    cout << "\nPizza size: \n (1)Small \n
(2)Medium \n (3)Large :";
    cin >> size;
    return size;
}
```

- This function is function with return value and no parameter
- int
getPizzaExtra
s()

return extras;

```
int getPizzaExtras()
{
    int extras;
    cout << "\nAdditional/Extras:\n
(1)Pepperoni\n (2)Pineapple\n
(3)Mushroom\n (4)Veggies\n
(5)Meat\n (6)Cheese\n (7)None :";
    cin >> extras;
    return extras;
}
```

- This function is function with parameter and return value
 - double calculateTotalCost(int type, int size, int extras)
return total;

```
int extras)
{
    double total = 0;

    switch(type)
    {
        case 1: total = total + 30; break;
        case 2: total = total + 40; break;
        case 3: total = total + 35; break;
        case 4: total = total + 45; break;
        default: cout << "\nInvalid input.";
    }
    break;

    switch(size)
    {
        case 1: break; // Small size has no
                    additional charge
        case 2: total = total + 15; break;
        case 3: total = total + 20; break;
        default: cout << "\nInvalid input.";
    }
    break;

    switch(extras)
    {
        case 1: total = total + 10; break;
        case 2: total = total + 10; break;
        case 3: total = total + 10; break;
        case 4: total = total + 10; break;
        case 5: total = total + 10; break;
        case 6: total = total + 10; break;
        case 7: break; // No extras has no
                    additional charge
        default: cout << "\nInvalid input.";
    }
    break;

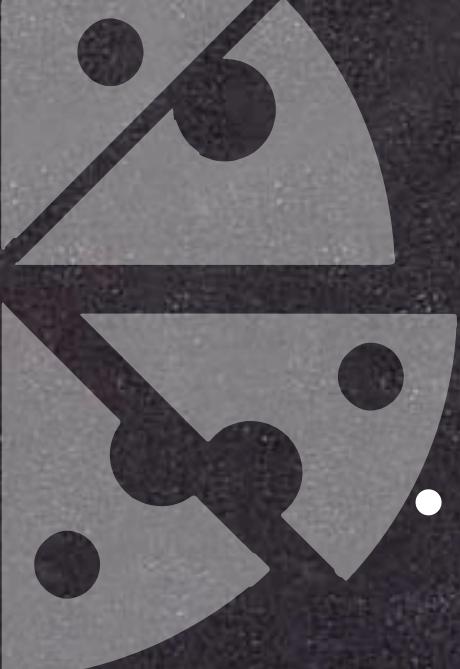
    return total;
}
```

- This function is function with parameter and no return value
 - void printOrderSummary(string name, int type, int size, int extras, double total)

- main() functions
- int main()

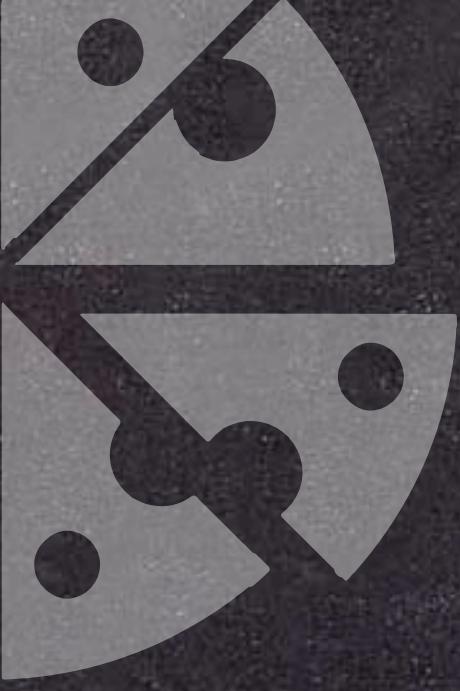
return 0;

```
int main()
{
    char orderChoice = 'y';
    while (orderChoice == 'y' || orderChoice == 'Y')
    {
        displayMenu();
        string name = getName();
        int pizzaChoice = getPizzaChoice();
        int pizzaSize = getPizzaSize();
        int pizzaExtras = getPizzaExtras();
        double totalCost = calculateTotalCost(pizzaChoice,
pizzaSize, pizzaExtras);
        printOrderSummary(name, pizzaChoice, pizzaSize,
pizzaExtras, totalCost);
        cout<<"\n\t>>>>>Thank You Enjoy Your Meal :"
<<<<<<<\t" << endl << endl;
        orderChoice = getOrderChoice();
    }
    return 0;
}
```



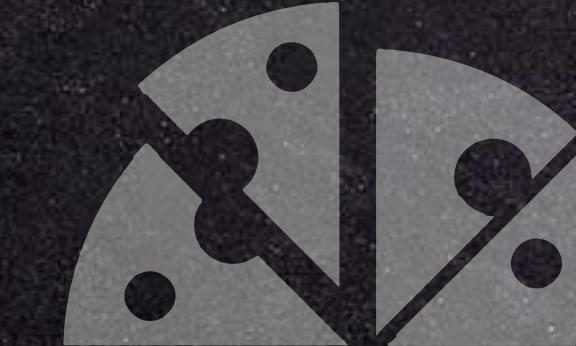
FUNCTIONS

- **getOrderChoice()**: This function prompts the user to enter whether they want to order a pizza or not and returns their choice as a character ('Y' or 'N').
 - **displayMenu()**: This function displays the menu of available pizzas and their prices, as well as the different options for pizza size and additional toppings.
 - **getName()**: This function prompts the user to enter their name and returns it as a string.
 - **getPizzaChoice()**: This function prompts the user to enter their choice of pizza flavor and returns their choice as an integer.
 - **getPizzaSize()**: This function prompts the user to enter their choice of pizza size and returns their choice as an integer.
 - **getPizzaExtras()**: This function prompts the user to enter their choice of additional toppings or extras for the pizza and returns their choice as an integer.
 - **calculateTotalCost(int type, int size, int extras)**: This function calculates the total cost of the order based on the user's choice of pizza flavor, size, and additional toppings. It takes in 3 parameters, type, size and extras which are the user's choice. It returns the total cost as a double
- 



SOURCE CODE

```
#include <iostream>
#include <stdlib.h>
#include <ctime>
using namespace std;
// Function to get user's choice of ordering a pizza
char getOrderChoice() {
    char choice;
    cout << "\n\t Would You Like To Order [y/n] : ";
    cin >> choice;
    while (choice != 'y' && choice != 'Y' && choice != 'n' && choice != 'N')
    {
        cout << "\n\t\tYou enter wrong input" << endl;
        cout << "\n\t Would You Like To Order [y/n] : ";
        cin >> choice;
    }
    return choice;
}
```



```
// Function to display the pizza menu
void displayMenu()
{
    cout << "\t      PIZZA MENU      \t" << endl;
    cout << "\t-----" << endl;
    cout << "\t-----" << endl;
    cout << "\t| [1] | " " | [2] | \t" << endl;
    cout << "\t| Chicken | " " | Beef | \t" << endl;
    cout << "\t| RM 30 | " " | RM 40 | \t" << endl;
    cout << "\t|           | " " |           | \t" << endl;
    cout << "\t-----" << endl;
    cout << "\t-----" << endl;
    cout << "\t| [3] | " " | [4] | \t" << endl;
    cout << "\t| Vegetarian | " " | Seafood | \t" << endl;
    cout << "\t| RM 35 | " " | RM 45 | \t" << endl;
    cout << "\t|           | " " |           | \t" << endl;
    cout << "\t-----" << endl;
    cout << "\t      PIZZA SIZE CHARGE      \t" << endl;
    cout << "\tLarge = Add RM20 --> 8 slice \t" << endl;
    cout << "\tMedium = Add RM15 --> 6 slice \t" << endl;
    cout << "\tSmall = No Charge --> 4 slice \t" << endl;
    cout << "\t      *RM 10 ADD ONS*      \t" << endl;
    cout << "\t-----" << endl;
}
```

```
// Function to get user's name
string getName()
{
    string name;
    cout << "\n Your Name:";
    cin >> name;
    return name;
}

// Function to get user's choice of pizza
int getPizzaChoice()
{
    int choice;
    cout << "\nPizza Flavor: \n (1)Chicken \n (2)Beef \n (3)Vegetarian \n (4)Seafood :";
    cin >> choice;
    return choice;
}
```

```
// Function to get user's choice of pizza size
int getPizzaSize()
{
    int size;
    cout << "\nPizza size: \n (1)Small \n (2)Medium \n (3)Large :";
    cin >> size;
    return size;
}
```

```
// Function to get user's choice of pizza extras
int getPizzaExtras()
{
    int extras;
    cout << "\nAdditional/Extras:\n (1)Pepperoni\n (2)Pineapple\n (3)Mushroom\n
          (4)Veggies\n (5)Meat\n (6)Cheese\n (7)None :";
    cin >> extras;
    return extras;
}
```

```
// Function to calculate the total cost of the order
double calculateTotalCost(int type, int size, int extras)
{
    double total = 0;

    switch(type)
    {
        case 1: total = total + 30; break;
        case 2: total = total + 40; break;
        case 3: total = total + 35; break;
        case 4: total = total + 45; break;
        default: cout << "\nInvalid input."; break;
    }

    switch(size)
    {
        case 1: break; // Small size has no additional charge
        case 2: total = total + 15; break;
        case 3: total = total + 20; break;
        default: cout << "\nInvalid input."; break;
    }

    switch(extras)
    {
        case 1: total = total + 10; break;
        case 2: total = total + 10; break;
        case 3: total = total + 10; break;
        case 4: total = total + 10; break;
        case 5: total = total + 10; break;
        case 6: total = total + 10; break;
        case 7: break; // No extras , no additional charge
        default: cout << "\nInvalid input."; break;
    }

    return total;
}
```

```
// Function to print the order summary
void printOrderSummary(string name, int type, int size, int extras, double total)
{
    time_t now = time(0);
    char* dt=ctime(&now);
    cout<<endl<<"\n\t      PEACE ZZZ Receipt      "<<endl;
    cout<<"\t=====----->"<<endl;
    cout<<endl<<"      "<<dt<<endl;
    cout << "\t\tName:"<<name<<endl;
    switch(type)
    {
        case 1: cout << "\n\t\tPizza Flavor: Chicken" << endl; break;
        case 2: cout << "\n\t\tPizza Flavor: Beef" << endl; break;
        case 3: cout << "\n\t\tPizza Flavor: Vegetarian" << endl; break;
        case 4: cout << "\n\t\tPizza Flavor: Seafood" << endl; break;
    }
    switch(size)
    {
        case 1: cout << "\t\tPizza Size: Small" << endl; break;
        case 2: cout << "\t\tPizza Size: Medium" << endl; break;
        case 3: cout << "\t\tPizza Size: Large" << endl; break;
    }
    cout << "\t\tAdditional/Extras: ";
    switch(extras)
    {
        case 1: cout << "Pepperoni" << endl; break;
        case 2: cout << "Pineapple" << endl; break;
        case 3: cout << "Mushroom" << endl; break;
        case 4: cout << "Veggies" << endl; break;
        case 5: cout << "Meat" << endl; break;
        case 6: cout << "Cheese" << endl; break;
        case 7: cout << "None" << endl; break;
    }
}
```

```
int quantity, payment, vouchers;
cout<<"\n\t\tPizza Pieces:";
cin>>quantity;
cout<<endl<<"\t\tUse vouchers? \n\t\t(1)NO (2)YES: ";
cin>>vouchers;
if (vouchers==2)
{
    payment=(total*quantity)-5.00;
}
else if (vouchers=1)
{
    payment=(total*quantity);
}
cout<<endl<<"\n\t\tTotal Payment: RM"<<payment<<endl;
}
```

```
int main()
{
    char orderChoice = 'y';
    while (orderChoice == 'y' || orderChoice == 'Y')
    {
        displayMenu();
        string name = getName();
        int pizzaChoice = getPizzaChoice();
        int pizzaSize = getPizzaSize();
        int pizzaExtras = getPizzaExtras();
        double totalCost = calculateTotalCost(pizzaChoice, pizzaSize, pizzaExtras);
        printOrderSummary(name, pizzaChoice, pizzaSize, pizzaExtras, totalCost);
        cout<<"\n\t>>>>>Thank You Enjoy Your Meal :)<<<<<<\t"
        <<endl<<endl;
        orderChoice = getOrderChoice();
    }
    return 0;
}
```



THANK YOU
PEACE ZZZ
RESTAURANT