The Restaurant Billing Report

Data structure B2

By:

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The Source Code:-

```
#include <iostream>
#include <string>
using namespace std;
void WelcomeMessage(){
 cout<<"
 cout<<"\n\t** Welcome to Restaurant Mr.Crab Restaurant. **"<<endl;
 cout<<"\t ** A Restaurant Billing Application. **"<<endl;
 cout<<"
 cout<<endl;
}
void EndMessage(){
 cout<<"
 cout<<"\n\t** Thank you!!! For your shopping. **"<<endl;</pre>
 cout<<"\t ** By Mr.Crab Restaurant. **"<<endl;
 cout<<"
 cout<<endl;
}
class billing{
public:
  string t; //name of meal
  int num_of_meal;
  int price;
  billing*next;
  billing(){
     billing*next=NULL;
  }
};
class stack{
public:
```

```
billing*head;
  //int size;
  int max;
  stack(int max){
    // size=0;
     this->max=max;
     head=NULL;
  }
void push(string a,int tt,int p){
     billing* new_billing=new billing;
     new_billing->t=a;
     new_billing->price=tt;
     new_billing->num_of_meal=p;
     if(head==NULL){
       head=new_billing;
       new_billing->next=NULL;
    }
     else{
       new_billing->next=head;
       head=new_billing;
      // size++;
     }
  }
void pop(){
     if(head==NULL){
       cout<<"empty";
     }
     else{
      billing* del=head;
       head=head->next;
       delete del;
```

```
}
  }
void peak(){ //display billing
billing* temp = head;
cout<<"name"<<"
                     "<<"price"<<" "<<"Quant"<<endl;
while (temp != NULL){
                     "; cout<<temp->price<<"$"<<"
cout << temp->t <<"
cout<<temp->num_of_meal<<endl;</pre>
temp = temp->next;}
cout << endl;
}
};
class MENU{ //doubly linked-list
 private:
 class MEAL{ //Node
  public:
  string Name;
  float Price;
  int quant;
  int ID;
  MEAL *next;
  MEAL *prev;
  MEAL () { //constructor
  next = NULL;
  prev = NULL;
  }
};
 MEAL*head=NULL;
public:
   ~MENU(); //destructor
```

```
void Permission(int v){
 int x;
 if(v==1)
        cout<<"Please enter the password: "<<endl;
        cin>>x;
        if(x==123){
   cout<<"The password is correct."<<endl;
   cout<<"\tPlease choose one option: "<<endl;
   cout<<"\t1-Display The menu."<<endl;
   cout<<"\t2-Update The menu."<<endl;
   cout<<"\t3-Delete all The menu."<<endl;
  int e; cin>>e;
  if(e==1){
   display();
   cout<<" 1-Search for a meal. or 2-Update the price. "<<endl;
  int b; cin>>b;
  if(b==2){
   int h1,h2;
         cout<<"Write the old price: "<<endl;
         cin>>h1;
   cout<<"Write the new price: "<<endl;
         cin>>h2;
  newprice(h1,h2);}
        else if(b==1){
   cout<<"Enter the meal code: ";
         int n; cin>>n;
  searchmeal(n);}}
        else if(e==2){
   updatemenu();}
   else if(e==3){
     cout<<" Are you sure?"<<endl;
     string qjj; cin>>qjj;
```

```
if(qjj=="YES"||qjj=="Y"||qjj=="Yes"||qjj=="y"||qjj=="yes"){
    MENU::~MENU();
    cout<<" The menu has been deleted."<<endl<<" ";
    display();
    cout<<endl<<endl;
    }
    else{
      exit(1);
    }
   }
  }
       else{
              cout<<"The password is incorrect."<<endl;
              exit(1);}}
}
void addfirst(string N,float P,int id,int q){
    MEAL* newMEAL= new MEAL;
    newMEAL->Name= N ;
    newMEAL->Price=P;
   newMEAL->ID=id;
    newMEAL->quant=q;
    if(head==NULL){
      head=newMEAL;
   }
    else {
          newMEAL->next=
    head;
         head=newMEAL;
         newMEAL->prev=NULL;
                             }
```

```
void addlast(string N,float P,int id,int q){
   MEAL* newMEAL= new MEAL;
   newMEAL->Name= N;
   newMEAL->Price=P;
   newMEAL->ID=id;
   newMEAL->quant=q;
   newMEAL->next=NULL;
   if(head==NULL){
      newMEAL->prev=NULL;
      newMEAL->next=NULL;
      head=newMEAL;}
   else{
    MEAL*temp=head;
    while(temp->next!=NULL){
      temp=temp->next;
      newMEAL->prev=temp;
    }
    temp->next=newMEAL;
   }
}
void insert_at_pos(string N,float P,int id ,int pos,int q){
              MEAL* newMEAL = new MEAL;
    newMEAL->Name= N ;
    newMEAL->Price=P;
    newMEAL->ID=id;
    newMEAL->quant=q;
    if(head==NULL){
      head=newMEAL;
      return;
    }
    if(pos==0){
```

```
newMEAL->next=head;
      head->prev=newMEAL;
       head=newMEAL;
      return;
    }
    MEAL*temp=head;
    for(int i=0;i<pos&&temp!=NULL;i++){
     temp = temp->next;
    }
    if(temp==NULL){
       this->addlast(N,P,id,q);
      return;
    }
    newMEAL->next=temp->prev;
    newMEAL->next=temp->next;
    temp->next=newMEAL;
    newMEAL->prev=temp;
}
void remfirst(){
  if (head == NULL)
    exit(1);
  else {
  MEAL*ptr;
  ptr = head;
  head = head -> next;
  delete ptr;
}
    }
void remove_at_pos(int pos){
               if (head == NULL)
                      return;
               MEAL* temp = head;
```

```
if (pos == 0){
                        head = temp->next;
                        if (head)
                                head->prev = NULL;
                        delete temp;
                        return;
                }
                for (int i = 0; i < pos && temp != NULL; <math>i++)
                        temp = temp->next;
                if (temp == NULL)
                        return;
                temp->prev->next = temp->next;
                if (temp->next)
                        temp->next->prev = temp->prev;
                delete temp;
       }
void remend(){
if (head == NULL)
  exit(1);
 if (head -> next == NULL) {
  delete head;
  exit(1);
 }
 MEAL * second_last = head;
 while (second_last -> next -> next != NULL)
  second_last = second_last -> next;
 delete(second_last -> next);
 second_last -> next = NULL;
void display(){
     cout << "ID
                    "<<"Name "<<"
                                      price"<<"
                                                     Quantity"<<endl;
                MEAL* temp = head;
```

```
while (temp != NULL){
                      cout << temp->ID<<" "<<temp->Name<< "
                                                                   " <<temp->Price<<"$"<< "
<<temp->quant<<endl;
                      temp = temp->next;
               }
               cout <<endl;
}
void sortlist(){
  MEAL*poin1;
  MEAL*poin2;
  poin1=head;
  poin2=NULL;
  int temp;
  if(head==NULL){
    return;
  }
  else{
    while(poin1!=NULL){
       poin2=poin1->next;
      while(poin2!=NULL){
         if(poin1->ID>poin2->ID){
           temp=poin1->ID;
           poin1->ID=poin2->ID;
           poin2->ID=temp;
         }
         poin2=poin2->next;
      }
       poin1=poin1->next;
    }
  }
void updatemenu(){
```

```
cout<<" please enter the password"<<endl;
              int pss; cin>>pss;
              if(pss==123){
              cout<<" The password is correct."<<endl;
              cout<<" Please choose one option: "<<endl;
              cout<<"1-Do you want to add a meal? or 2-delete a meal?"<<endl;
              int ww; cin>>ww; if(ww==1){
              cout<<" Where do you want to add the meal? "<<endl;
              cout<<" 1-At First 2-At End 3-At position "<<endl;
              int z; cin>>z;
              if(z==1)
                     string qq; float pp; int l,nb;
                     cout<<"The Name of the meal: "<<endl;
                     cin>>qq;
                      cout<<"The Price of the meal: "<<endl;
                      cin>>pp;
                     cout<<"The ID of the meal: "<<endl;
                     cin>>l;
                      cout<<"The Quantities of the meal: "<<endl;
                     cin>>nb;
                      addfirst(qq,pp,l,nb);
                     cout<qq<<" meal has been added "<<endl;
                      cout<<"The new menu is: "<<endl;
                      display();
                     cout<<"Do you want to sort The menu? Y/N?"<<endl;
                      char rw; cin>>rw;
                      if(rw=='Y'){
                      sortlist();
                      display();}
                      else if(rw=='N'){
exit(1);
                     }
```

```
}
               else if(z==2){
                      string zq; float kk; int j,xz;
                      cout<<"The Name of the meal: "<<endl;
                      cin>>zq;
                      cout<<"The Price of the meal: "<<endl;
                      cin>>kk;
                      cout<<"The ID of the meal: "<<endl;
                      cin>>j;
                      cout<<"The Quantities of the meal: "<<endl;
                      cin>>xz;
                      addlast(zq,kk,j,xz);
                      cout<<zq<<" meal has been added "<<endl;
                      cout<<"The new menu is: "<<endl;
                      display();
                      cout<<"Do you want to sort The menu? Y/N?"<<endl;
                      char rw; cin>>rw;
                      if(rw=='Y'){
                      sortlist();
                      display();}
                      else if(rw=='N'){
exit(1);
                      }
              }
               else if(z==3){
                      string po; float yy; int jo,ji,mn;
                      cout<<"The Name of the meal: "<<endl;
                      cin>>po;
                      cout<<"The Price of the meal: "<<endl;
                      cin>>yy;
                      cout<<"The ID of the meal: "<<endl;
                      cin>>jo;
```

```
cout<<"The Position of the meal: "<<endl;
                        cin>>ji;
                        cout<<"The Quantities of the meal: "<<endl;
                        cin>>mn;
                        insert_at_pos(po,yy,jo,ji,mn);
                        cout<<po<<" meal has been added "<<endl;
                        cout<<"The new menu is: "<<endl;
                        display();
                        cout<<"Do you want to sort The menu? Y/N?"<<endl;
                        char rw; cin>>rw;
                        if(rw=='Y'){}
                        sortlist();
                        display();}
                        else if(rw=='N'){
  exit(1);
                       }
                }
                else if(ww==2){
cout<<" Where is the meal you want to delete? "<<endl;
                cout<<" 1-At First 2-At End 3-At position "<<endl;
                int lo; cin>>lo;
                if(lo==1){
                        remfirst();
                        cout<<"The meal has been deleted "<<endl;
                        cout<<"The new menu is: "<<endl;
                        display();
                }
                else if(lo==2){
                        remend();
                        cout<<"The meal has been deleted "<<endl;
                        cout<<"The new menu is: "<<endl;
```

```
display();
                        }
                        else if(lo==3){
                          cout<<"Write the position: "<<endl;
         int jj; cin>>jj;
                               remove_at_pos(jj);
                               cout<<"The meal has been deleted "<<endl;
                               cout<<"The new menu is: "<<endl;
                               display(); }}}
                        else{
                               cout<<"password is incorrect."<<endl;</pre>
                               exit(1);
                        }}
void searchmeal(int IDsearch){
  MEAL*temp=head;
  int found=0;
  int i=0;
  if(temp==NULL){
    cout<<"MENU IS EMPTY "<<endl;}
  else{
    while(temp!=NULL){ i++;
     if(temp->ID==IDsearch){
       found++;
       break;
    }
    temp= temp->next;}
    if(found==1){
        if(IDsearch==1001){
               cout<<"Pizza: ";}
     else if(IDsearch==1002){
               cout<<"Meat: ";
                        }
```

```
else if(IDsearch==1003){
                       cout<<"Pasta: ";
                        }
    else if(IDsearch==1004){
                       cout<<"Liver: ";
                        }
    else if(IDsearch==1005){
                       cout<<"Burger: ";
                        }
      cout<<temp->quant;
    }
    else{
                       cout<<IDsearch<<" Didn't found the meal "<<endl;
                       cout<<" Do you want to update the menu? Y/N?"<<endl;
                       char q; cin>>q;
                       if(q=='Y'){}
                       updatemenu();}
                       else if(q=='N'){
                              exit(1); }}}}
void newprice(int old, int new_val){
    if(old !=75 && old !=100 && old !=50 && old !=60 && old !=40){
      cout<<" The old Price is incorrect."<<endl;
      exit(1);
    }
    else{
    int c = 0;
     MEAL*temp=head;
     if(head ==NULL){
       return;
     while (temp!=NULL){
       C++;
```

```
if(temp->Price==old){
          temp->Price=new_val;
          new_val=temp->Price;
          cout<<"new update "<<endl;
          display();
        }
        if(temp->next!=NULL){
          temp=temp->next;
        }
        else {
          break;
       }}}}};
 MENU::~MENU(){ //destructor
               MEAL* temp = head;
               while (head != NULL){
    head = head->next;
    delete temp;
    temp = head;}}
int main() {
  WelcomeMessage();
        MENU rest;
       //The Menu:
        rest.addfirst("Pizza ",75,1001,50);
  rest.addfirst("Meat ",100,1002,60);
  rest.addfirst("Pasta ",50,1003,20);
  rest.addfirst("Liver ",60,1004,17);
  rest.addfirst("Burger ",40,1005,42);
  cout<<"\t\tPlease choose one option: "<<endl;
                           2-Customer"<<endl;
  cout<<"\t\t1-Admin
  int v; cin>>v;
  if(v==1)
```

```
rest.Permission(v); } //Admin or Customer
  else if(v==2){
   cout<<"\tPlease choose one option: "<<endl;
   cout<<"\t1-Display The menu."<<endl;
   int y; cin >> y; if(y==1){
   rest.display();
   cout<<"\tWould you like to make an order? Y/N?"<<endl;
 char ff; cin>>ff;
  if(ff=='N'){}
         exit(1);}
  else if(ff=='Y'){
stack *bill=new stack(10);
int p=0;
double price;
string name;
int t[50]; //price
cout<<"Please enter number of meals: "<<endl;
 int n; int s=0; cin>>n;
 for(int i=0;i< n;i++){
  int arr[n];
  cout<<"Enter the meal code: "<<endl;
  cin>>arr[i];
  if(arr[i]==1001){}
    name="Pizza ";
    cout<<name;
    t[i]=75;
    }
  else if(arr[i]==1002){
    name="Meat";
    cout<<name;
```

```
t[i]=100;
  }
else if(arr[i]==1003){
  name="Pasta ";
  cout<<name;
  t[i]=50;
  }
else if(arr[i]==1004){
  name="Liver";
  cout<<name;
 t[i]=60;
  }
else if(arr[i]==1005){
  name="Burger";
  cout<<name;
  t[i]=40;
  }
cout<<"meal has been added."<<endl;
cout<<"How many quantities you want? "<<endl;</pre>
int q; cin>>q;
bill->push(name,t[i],q);
s+=t[i]*(q);
p=s-t[i]*(q);
cout<<"1-Do you want to delete The Last meal? OR 2-End your Order?"<<endl;
int endd; cin>>endd;
if(endd==2){
bill->peak();
cout<<"TOTAL :-"<<" "<<s<endl;
EndMessage();
exit(1);
```

```
else if(endd==1){
  bill->pop();
  bill->peak();
  cout<<"TOTAL :-"<<"     "<<p<<endl;
  EndMessage();
  exit(1);}
  }}}
  return 0;
}</pre>
```

• The Screenshots:-

1-When we run the code, We have 2 options: -

2 -When we choose (1 -Admin) and enter password, we choose one option:-

```
** Welcome to Restaurant Mr.Crab Restaurant. **

** A Restaurant Billing Application. **

Please choose one option:

1-Admin 2-Customer

Please enter the password:

123

The password is correct.

Please choose one option:

1-Display The menu.

2-Update The menu.

3-Delete all The menu.
```

3 -If we choose display, it will display the menu, and if we choose (1-search) and write the code(id) of any meal, it will display the name and quantity of this meal.

```
** Welcome to Restaurant Mr.Crab Restaurant. **
           ** A Restaurant Billing Application. **
                Please choose one option:
                1-Admin
                                   2-Customer
Please enter the password:
The password is correct.
        Please choose one option:
        1-Display The menu.
        2-Update The menu.
        3-Delete all The menu.
ID
                        price
                                   Quantity
         Name
1001
         Pizza
                        75$
1002
                       100$
         Meat
                                   60
1003
                        50$
                                   20
         Pasta
1004
         Liver
                        60$
                                   17
                        40$
                                   42
1005
         Burger
   1-Search for a meal. or 2-Update the price.
Enter the meal code: 1001
Pizza: 50
Process returned 0 (0x0)
                            execution time: 837.288 s
Press any key to continue.
```

4-if we choose (2-update price): -





```
1-Search for a meal. or 2-Update the price.
Write the old price:
Write the new price:
122
new update
                                    Quantity
                        price
ID
         Name
1001
         Pizza
                        122$
                                    50
1002
                                    60
         Meat
                       100$
                                    20
1003
         Pasta
                        50$
1004
         Liver
                        60$
                                    17
                                    42
1005
                        40$
         Burger
Process returned 0 (0x0)
                            execution time: 8.700 s
Press any key to continue.
```

```
1-Search for a meal. or 2-Update the price.

Write the old price:
122
Write the new price:
75
The old Price is incorrect.

Process returned 1 (0x1) execution time: 10.243 s
Press any key to continue.
```

5—if we choose (2—update menu), then we choose one option—> (add a meal), then we choose to add it at first, then write name, price, id, quantity:—

```
123
  The password is correct.
  Please choose one option:
1-Do you want to add a meal? or 2-delete a meal?
  Where do you want to add the meal?
                               3-At position
  1-At First
                  2-At End
The Name of the meal:
Shawerma
The Price of the meal:
28
The ID of the meal:
1006
The Quantities of the meal:
35
Shawerma meal has been added
The new menu is:
ID
         Name
                        price
                                    Quantity
1006
         Shawerma
                        28$
                                    35
                        40$
                                    42
1005
         Burger
1004
         Liver
                        60$
                                    17
1003
         Pasta
                        50$
                                    20
1002
         Meat
                       100$
                                    60
         Pizza
                        75$
1001
                                    50
Do you want to sort The menu? Y/N?
ID
         Name
                        price
                                    Quantity
1001
         Shawerma
                        28$
                                    35
1002
         Burger
                        40$
                                    42
1003
         Liver
                        60$
                                    17
1004
         Pasta
                        50$
                                    20
1005
         Meat
                       100$
                                    60
1006
         Pizza
                        75$
                                    50
```

6 - if we choose at end: -

| Where do you want to add the meal? | | | |
|------------------------------------|---------------------------------------|--------------|--------------------|
| 1-At Fi | irst 2-At | End 3-A | t position |
| 2 | | | |
| The Name of the meal: | | | |
| Shawerma | | | |
| The Price of the meal: | | | |
| 22 | | | |
| The ID of the meal: | | | |
| 1000 | | | |
| The Quantities of the meal: | | | |
| 2 | | | |
| Shawerma meal has been added | | | |
| The new menu is: | | | |
| ID | Name | price | Quantity |
| 1001 | Pizza | 75\$ | 50 |
| 1002 | Meat | 100\$ | 60 |
| 1003 | Pasta | 50\$ | 20 |
| 1004 | Liver | 60\$ | 17 |
| 1005 | Burger | 40\$ | 42 |
| 1000 | Shawerma | 22\$ | 2 |
| | | | |
| | ant to sort Th | ne menu? Y/I | N? |
| Υ | | | NAME OF THE OWNERS |
| ID | Name | price | Quantity |
| 1000 | Pizza | 75\$ | 50 |
| 1001 | Meat | 100\$ | 60 |
| 1002 | Pasta | | 20 |
| 1003 | Liver | 60\$ | 17 |
| 1004 | | 40\$ | 42 |
| 1005 | Shawerma | 22\$ | 2 |
| | · · · · · · · · · · · · · · · · · · · | | |

7 -if we choose at a position: -

```
Where do you want to add the meal?
                  2-At End
  1-At First
                               3-At position
The Name of the meal:
Shawerma
The Price of the meal:
43
The ID of the meal:
1003
The Position of the meal:
The Quantities of the meal:
12
Shawerma meal has been added
The new menu is:
ID
         Name
                                    Quantity
                        price
1001
         Pizza
                        75$
                                    50
1002
         Meat
                       100$
                                    60
1003
         Shawerma
                        43$
                                    12
1003
         Pasta
                        50$
                                    20
1004
         Liver
                        60$
                                    17
1005
                        40$
                                    42
         Burger
Do you want to sort The menu? Y/N?
ID
         Name
                        price
                                    Quantity
1001
         Pizza
                        75$
                                    50
1002
         Meat
                       100$
                                    60
1003
         Shawerma
                        43$
                                    12
1003
         Pasta
                        50$
                                    20
1004
         Liver
                        60$
                                    17
1005
                        40$
                                    42
         Burger
```

8 -if we choose to delete a meal at first: -

```
123
  The password is correct.
  Please choose one option:
1-Do you want to add a meal? or 2-delete a meal?
  Where is the meal you want to delete?
  1-At First
                             3-At position
                 2-At End
The meal has been deleted
The new menu is:
ID
         Name
                       price
                                   Quantity
                       100$
                                   60
1002
         Meat
1003
         Pasta
                       50$
                                   20
1004
         Liver
                        60$
                                   17
1005
                        40$
                                   42
         Burger
```

9 - if we choose to delete a meal at end: -

```
123
  The password is correct.
  Please choose one option:
1-Do you want to add a meal? or 2-delete a meal?
  Where is the meal you want to delete?
  1-At First
                               3-At position
                 2-At End
The meal has been deleted
The new menu is:
         Name
ID
                       price
                                   Quantity
1001
         Pizza
                       75$
                                   50
1002
         Meat
                      100$
                                   60
1003
         Pasta
                       50$
                                   20
1004
                       60$
                                   17
         Liver
```

10 - if we choose to delete a meal at a position: -

```
123
  The password is correct.
  Please choose one option:
1-Do you want to add a meal? or 2-delete a meal?
  Where is the meal you want to delete?
  1-At First
                 2-At End
                              3-At position
Write the position:
The meal has been deleted
The new menu is:
ID
         Name
                       price
                                   Quantity
1001
         Pizza
                       75$
                                   50
1002
         Meat
                      100$
                                   60
1004
         Liver
                       60$
                                   17
1005
         Burger
                       40$
                                   42
```

11-if we choose (3-delete the menu): -

```
The password is correct.

Please choose one option:

1-Display The menu.

2-Update The menu.

3-Delete all The menu.

3

Are you sure?

Y

The menu has been deleted.

ID Name price Quantity
```

12-if we choose the option 2-Customer: -

```
** Welcome to Restaurant Mr.Crab Restaurant. **
              ** A Restaurant Billing Application. **
                    Please choose one option:
                    1-Admin
                                           2-Customer
2
          Please choose one option:
          1-Display The menu.
ID
                             price
                                           Quantity
1001
           Pizza
                             75$
                                           50
1002
           Meat
                            100$
                                           60
           Pasta
1003
                             50$
                                           20
           Liver
                             60$
                                           17
1004
1005
                             40$
                                           42
           Burger
          Would you like to make an order?
                                                      Y/N?
Please enter number of meals:
5
Enter the meal code:
1001
Pizza meal has been added.
How many quantities you want?
Enter the meal code:
1002
Meat meal has been added.
How many quantities you want?
Enter the meal code:
Pasta meal has been added.
How many quantities you want?
Enter the meal code:
Burger meal has been added.
How many quantities you want?
Enter the meal code:
1001
Pizza meal has been added.
How many quantities you want?
Enter the meal code:
Meat meal has been added.
How many quantities you want?
Enter the meal code:
1003
Pasta meal has been added.
How many quantities you want?
6
Enter the meal code:
Burger meal has been added.
How many quantities you want?
Enter the meal code: 1004
Liver meal has been added.
How many quantities you want?
1-Do you want to delete The Last meal? OR 2-End your Order?
              price
                                Quant
              60$
40$
50$
100$
75$
                                 73
Liver
Burger
                                 632
Pasta
Meat
Pizza
TOTAL :-
         ** Thank you!!! For your shopping. **

** By Mr.Crab Restaurant. **
```

13-if we choose same options, but at last we choose to delete last

```
Y/N?
        Would you like to make an order?
Please enter number of meals:
Enter the meal code:
Pizza meal has been added.
How many quantities you want?
Enter the meal code:
1004
Liver meal has been added.
How many quantities you want?
Enter the meal code:
1003
Pasta meal has been added.
How many quantities you want?
Enter the meal code:
1002
Meat meal has been added.
How many quantities you want?
Enter the meal code:
Burger meal has been added.
How many quantities you want?
1-Do you want to delete The Last meal? OR 2-End your Order?
name
             price
                             Quant
Meat
             100$
                              2
Pasta
              50$
Liver
              60$
Pizza
              75$
TOTAL :- 1020
       ** Thank you!!! For your shopping. **
```