Aim: Set A cont of custoners like pizza and sel B of customers like aburger, white a c++ program to store two set using an array. Compute and display,

Theory!-

1 Explain syntax to create an array by specifying size an array of specified size can be created as :arollet

Step 1: Give data type.

Step 2: det declare a variable and put "[]' this brackets at end of variable.

Step 3: Now write the size as an integer value inside '[]'.

step 4: Your array of given size is created.

2] How to insent and point element in array? -) For insertion:

gtep 1: take a data from user.

step 2: - Now use ain and insertion operator? after that write the armay pame.

Step 3: Now specify the index of which you you want data to be stored. o for data at first position.

For printing:

To print a single element use cout and extraction operator after that give the array and itis index to display a particular record/ element

5400 A124 For printing whole array run a for loop till the aire of array and print the array elements one after other. 3) Advantage and disadvantage of an armay in cost andvantages:-Array represents multiple data items of same type using a single name. In omnay the elements can be accessed mand amby by using the index number. No memory allocation can be done at the time of min. Disadvantage: The side of armay should be known in advance An array is a static structure once declared itis size capnot be modified. insertion and deletion is hard as elements in consecution ve memory Conclusion? We have successfully implemented array using ctt for finding out the choice of austomers for items like pieza and burger.

CODE:

```
#include <iostream>
using namespace std;
void display1(int arr[], int n)
    int i = 0;
    for (i = 0; i < n; i++)
        if (arr[i] >= 1 && arr[i] <= 3)
            cout << i + 1 << " ";
    cout << endl;</pre>
void display2(int arr[], int n)
    int i = 0;
    for (i = 0; i < n; i++)
        if (arr[i] == 1)
            cout << i + 1 << " ";
    cout << endl;</pre>
void display3(int arr[], int n)
    int i = 0;
    for (i = 0; i < n; i++)
        if (arr[i] == 2)
            cout << i + 1 << " ";
    cout << endl;</pre>
void display4(int arr[], int n)
    for (int i = 0; i < n; i++)
        if (arr[i] == 3)
            cout << i + 1 << " ";
    cout << endl;</pre>
void display5(int arr[], int n)
    for (int i = 0; i < n; i++)
        if (arr[i] == 4)
```

```
cout << i + 1 << " ";
    cout << endl;</pre>
int main()
    int arr[100], choice, i = 0, n;
    cout << "enter the number of customers:" << endl;</pre>
    cin >> n;
    cout << endl</pre>
         << "ented the choice" << endl
         << "1)only burger" << endl
         << "2)only pizza" << endl
         << "3)both" << endl
         << "4)none" << endl;
    cout << "enter the choice per customer:" << endl;</pre>
    for (i = 0; i < n; i++)
        cout << "for custoner " << i + 1 << ":";</pre>
        cin >> arr[i];
    while (1)
        cout << "menu" << endl</pre>
             << "1)display customer with choice burger or pizza or both"
             << endl
              << "2)only burger" << endl
              << "3)only pizza" << endl
              << "4)both pizza and burger"
              << endl
              << "5)none " << endl
             << "6)exit" << endl;</pre>
        cin >> choice;
        switch (choice)
        case 1:
             cout << "the customers are :" << endl;</pre>
             display1(arr, n);
            break;
        case 2:
             cout << "the customers arr :" << endl;</pre>
             display2(arr, n);
            break;
        case 3:
             cout << "the customers are :" << endl;</pre>
             display3(arr, n);
            break;
```

OUTPUT:

```
enter the number of customers:
5
ented the choice
1)only burger
2)only pizza
3)both
4)none
enter the choice per customer:
for custoner 1:1
for custoner 2:2
for custoner 3:3
for custoner 4:1
for custoner 5:4
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
the customers are :
1 2 3 4
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
2
the customers arr :
1 4
```

```
menu
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
the customers are :
menu
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
the customers are :
3
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
5
tge customers are :
```

```
menu
1)display customer with choice burger or pizza or both
2)only burger
3)only pizza
4)both pizza and burger
5)none
6)exit
6
PS D:\program\secondyear>
```