EXPERIMENT NO. 01

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	SE IT ROLL NO - 11
	PCPF
	Experiment No. 01
Mary No.	an laterace plant come work in the company
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40	din: To write a program to execute encapsulation
	Ain: To write a peogram to execute encapsulation and abstraction by using C++.
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	Theory:
	Encaptulation is a process of weapping similar code in one place It is one of the key features of object oriented programming language which involves the bundling of data members and
•	of object sciented programming language which
	involves the bundling of data members and
	kundions usuae a mare class.
	Data abstraction is the process which provides
	essential details to the outside world as well
	as hides internal details from them i.e., it
	represents only essential detaits in the program. Basically abstraction is a programming technique
	which depends upon the stresstim of interlace
	which depends upon the seperation of interface and implementation details of program.
•	
	Ways to achieve Encapulation & Data Abetraction
	. Making all data members private.
	2. Making use of classes and header files. 3. Creating public setter and getter functions for each data member in such a way that the
	3. Cleating public setter and getter functions for
	each volata member in such a way that the
	set function sets the value of data member and function gets the value of data member.
	and francis des ser same of war Williams.
Sundaram	FOR EDUCATIONAL USE

CODE:

```
#include <iostream>
     #include <fstream>
     #include <string.h>
     using namespace std;
7
     class customer
     public:
          string name;
          long long int phone number;
          string email id;
12
          string address;
          string gender;
          int age;
          int number of people;
17
          void getdata()
          {
              cin.ignore();
              cout << "Enter your Name:" << endl;</pre>
              getline(cin, name);
              cout << "Enter your Phone Number:" << endl;</pre>
              cin >> phone number;
25
              cout << "Enter your Email Id:" << endl;</pre>
              cin >> email id;
26
              cin.ignore();
              cout << "Enter you address:" << endl;</pre>
              getline(cin, address);
              cout << "Enter your Gender:" << endl;</pre>
              cin >> gender;
              cout << "Enter your Age:" << endl;</pre>
              cin >> age;
          };
          void showdata()
              cout << "NAME:" << name << endl;</pre>
```

```
cout << "PHONE NUMBER:" << phone_number << endl;</pre>
        cout << "EMAIL ID:" << email_id << endl;</pre>
        cout << "ADDRESS:" << address << endl;</pre>
        cout << "GENDER:" << gender << endl;</pre>
        cout << "AGE:" << age << endl;</pre>
class admin
    int new trip;
    string destination;
    string duration;
    string price;
    int code;
    void getdata()
        cout << "Enter Trip Code:" << endl;</pre>
        cin >> code;
        cin.ignore();
        cout << "Enter Trip Destination:" << endl;</pre>
        getline(cin, destination);
        cout << "Enter Trip Duration:" << endl;</pre>
        cin >> duration;
        cout << "Enter Total Price:" << endl;</pre>
        cin >> price;
    void showdata()
        cout << "DESTINATION:" << destination << endl;</pre>
        cout << "DURATION:" << duration << endl;</pre>
        cout << "PRICE:" << price << endl;</pre>
```

```
int main()
   int choice;
   printf("\n\n^**WELCOME TO EXPLORIANA TOURS AND TRAVELS**\n\n");
   printf("WHAT'S YOUR ROLE:-\n 1)ADMIN\n 2)CUSTOMER\n\n SELECT AN OPTION:-\n");
   scanf("%d", &choice);
   switch (choice)
       admin a[3];
       for (i = 1; i <= 3; i++)
           printf("Trips are:-\n");
           a[i].getdata();
           printf("\n");
       for (i = 1; i \leftarrow 3; i++)
           printf("Trips Details:-\n");
           a[i].showdata();
           printf("\n");
   case 2:
       int trip_code;
                                 ********SELECT A TRIP******\t\t\t\n\n";
       cout << "\t\t\t
       cout << "\tTRIP CODE\t\tDESTINATION\t\tDURATION\t\tPRICE(IN Rs.)\t\n";</pre>
       cout << "\t---
                                                                                                   ----\t\n";
       cout << "\t01
                                                                           \t\n":
       cout << "\t02
                            \t\tmatheran \t\t3D/2N \t\t8,000 \t\tGOA \t\t7D/6N \t\t16,000
                                                                          \t\n":
       cout << "\t03
                                                                          \t\n\n";
```

```
cout << "ENTER THE TRIP CODE YOU WISH TO GO:-\n"; scanf("%d", &trip_code);
if (trip_code != 01 && trip_code != 02 && trip_code != 03)
    printf("ENTER A VALID CODE!\n");
    printf("CODE EXITED!!");
    printf("WHEN DO YOU WISH TO GO:-\n");
    printf("[Enter in \"DD/MM/YYYY\"FORMAT]\n");
    scanf("%s", &date);
    int x, n;
    printf("Enter the number of people:\n");
    scanf("%d", &n);
    customer b[n];
    for (x = 0; x < n; x++)
        printf("\nDETAILS OF %d CUSTOMER:-\n", x + 1);
        b[x].getdata();
    printf("\n\nTHANK YOU FOR BOOKING WITH EXPLORIANA TOURS AND TRAVELS\n");
    printf("\t****BILLING SUMMMARY****\t\n");
    switch (trip_code)
        printf("TO MANALI FOR 6D/5N.\nTotal amount to be paid is %d for %d people", 12000 * n, n);
        printf("TO MATHERAN FOR 3D/2N.\nTotal amount to be paid is %d for %d people", 8000 * n, n);
```

OUTPUT:

```
*WELCOME TO EXPLORIANA TOURS AND TRAVELS*

WHAT'S YOUR ROLE:-
1)ADMIN
2)CUSTOMER

SELECT AN OPTION:-
1
```

```
Trips are:-
Enter Trip Code:
01
Enter Trip Destination:
MANALI
Enter Trip Duration:
6D/5N
Enter Total Price:
12,000
Trips are:-
Enter Trip Code:
02
Enter Trip Destination:
MATHERAN
Enter Trip Duration:
3D/2N
Enter Total Price:
8,000
```

Trips are:Enter Trip Code:
03
Enter Trip Destination:
GOA
Enter Trip Duration:
7D/6N
Enter Total Price:
16,000

Trips Details:DESTINATION:MANALI
DURATION:6D/7N
PRICE:12,000

Trips Details:-

DESTINATION: MATHERAN

DURATION:3D/2N PRICE:8,000

Trips Details:-DESTINATION:GOA DURATION:7D/6N PRICE:16,000

2ND OUTPUT:

WELCOME TO EXPLORIANA TOURS AND TRAVELS

WHAT'S YOUR ROLE:-

1)ADMIN

2)CUSTOMER

SELECT AN OPTION:-

2

	SELECT A TR	RIP	
TRIP CODE	DESTINATION	DURATION	PRICE(IN Rs.)
01	MANALI	6D/5N	12,000
02	MATHERAN	3D/2N	8,000
03	GOA	7D/6N	16,000
ENTER THE TRIP CODE YOU WISH 01 WHEN DO YOU WISH TO GO:- [Enter in "DD/MM/YYYY"FORMAT 09/12/2021 Enter the number of people: 2			

DETAILS OF 1 CUSTOMER:-

Enter your Name:

ROHAN RAUT

Enter your Phone Number:

9898987700

Enter your Email Id: rohanraut@gmail.com

Enter you address:

BANDRA MUMBAI

Enter your Gender:

MALE

Enter your Age:

25

DETAILS OF 2 CUSTOMER:Enter your Name:
JYOTI PATIL
Enter your Phone Number:
979797800
Enter your Email Id:
patiljyoti@gmail.com
Enter you address:
MIRA ROAD
Enter your Gender:
FEMALE
Enter your Age:
22

THANK YOU FOR BOOKING WITH EXPLORIANA TOURS AND TRAVELS

BILLING SUMMMARY

TOUR IS SCHEDULED FOR 09/12/2021 TO MANALI FOR 6D/5N.

Total amount to be paid is 24000 for 2 people

DETAILS OF 1 CUSTOMER:NAME:ROHAN RAUT

PHONE NUMBER:9898987700

EMAIL ID:rohanraut@gmail.com

ADDRESS:BANDRA MUMBAI

GENDER:MALE

AGE:25

-------HAVE A SAFE TRIP----
DETAILS OF 2 CUSTOMER:NAME:JYOTI PATIL

PHONE NUMBER:979797800

EMAIL ID:patiljyoti@gmail.com

ADDRESS:MIRA ROAD

GENDER:FEMALE

AGE:22

--------HAVE A SAFE TRIP--------

CONCLUSION:

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	Conclusion: We have successfully executed operations
	Conclusion: We have successfully executed operations like encapsulation and abstraction by using
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