**Lab-12 Assignment**

**1)C++ program to display the information about scheme**

**Algorithm:** In this program we have given user about 3 schemes and a variable ‘n’ and user will enter option from the given 3 schemes and it will show the results the selected option. So, we are using if else statement to show the information of the schemes. If user enter other than the option then it will tell to write the correct option.

**Logic:**

#include<iostream>

using namespace std;

int main(){

int n;

cout<<"Enter the Scheme you wanted to know in below option"<<endl;

cout<<"1.Digital India"<<endl;

cout<<"2.Pradhan Mantri Gramin Awaas Yojana"<<endl;

cout<<"3.Smart cities Mission"<<endl;

cout<<"Enter your option : ";

cin>>n;

if(n==1){

cout<<"\*\*\*\*Results of Digital India\*\*\*\*"<<endl;

cout<<"Ministry of Electronics and Information Technology is the ministry of the scheme"<<endl;

cout<<"It was launched on 1 July 2015"<<endl;

cout<<"It aims to ensure that government services are available to citizens electronically and people get benefits from the latest information and communication technology."<<endl;

}

else if(n==2){

cout<<"\*\*\*\*Results of Pradhan Mantri Gramin Awaas Yojana\*\*\*\*"<<endl;

cout<<"Ministry of Rural Development is the ministry of the scheme"<<endl;

cout<<"It was launched on 1985 and Restructured on 25 June 2015"<<endl;

cout<<"Provides financial assistance to rural poor for constructing their houses themselves."<<endl;

}

else if(n==3){

cout<<"\*\*\*\*Results of Smart cities Mission\*\*\*\*"<<endl;

cout<<"Ministry of Housing and Urban Affairs is the ministry of the scheme"<<endl;

cout<<"It was launched on 25 June 2015"<<endl;

cout<<"To enable better living and drive economic growth stressing on the need for people centric urban planning and development."<<endl;

}

else{

cout<<"Please choose the correct option and try again"<<endl;

}

cout<<"Submitted by G.Hruthesh Reddy,Admn.No 20BCB7031"<<endl;

}

**Output:**

**Graphical user interface

Description automatically generated**

**Graphical user interface

Description automatically generated**

**Graphical user interface

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**2)C++ program to develop application for parcel booking office**

**Algorithm:** In this program we declared a class called Parcel and given required variables in the class .Then we declared a sub class named user given some of the required variables and assign the values and then we declared another subclass named Delivery with pointing to class user in which this follows a multilevel inheritance and declaring objects to the class and calling them in the main function.

**Logic:**

#include<iostream>

using namespace std;

class Parcel{

public:

string customer;

string location;

int price;

string product;

string deliveryperson;

int time;

int temp;

};

class user : public Parcel{

public:

void details(){

cout<<"Enter the customer name : ";

cin>>customer;

cout<<"Enter the delivery location : ";

cin>>location;

cout<<"Enter the Item ordered by customer : ";

cin>>product;

cout<<"Enter the Price paid by the Customer : ";

cin>>price;

}

};

class Delivery : public user{

public:

void details(){

cout<<"Enter the name of Delivery person : ";

cin>>deliveryperson;

cout<<"Enter the temperature in celsius : ";

cin>>temp;

cout<<"Enter time taken by Delivery person : ";

cin>>time;

if(time<=30){

cout<<"The price charged will be : "<<price<<endl;

}

else{

cout<<"The price of the item is 0 Rupees"<<endl;

}

}

};

int main(){

Parcel p;

user u;

Delivery d;

u.details();

d.details();

cout<<"Submitted by G.Hruthesh Reddy,Admn.No 20BCB7031"<<endl;

}

**Output:**

**Text

Description automatically generated**

**Time of Submission:** 6-10-21,21:55