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G. H. <u>Raisoni</u> College <u>Of</u> Engineering And Management, <u>Wagholi</u> Pune Assignment no :- 2 2021- 2022					, <u>Wagholi</u> Pune
l	Department	CE [SUMMER 2022 (Online)]			
l	Term / Section	<u>III/B</u>	Date O	f submission	<u>16-09-2021</u>
l	Subject Name /Code	Object Oriented Programming / UTIL201/UITP201			
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ASsignment 2

Aim > Define a class to represent a bonk account including the following members:

· Pata members :> Name of depositor, Account number,
Type of account , Balance amount in the

member Function: To assign initial values
To deposit an amount
To withdraw an amount after checking the
balance , To display name & balance

and opsect and broken to test broken asid class

Theory +

- DOSECT Oriented programming (ODP)
 - of the concept of class, object and various of the concepts like inheritance hiding polymosphism, etc. in the programming.
 - The main aim of oop is to bind together the data and function that operate on them so that no other part of the code can access this data except that function.

DOP'S Conception and State 10

- 1. objects 3. Abstraction 5. interitonce
- 2 Class 4. Encapsulation 6. Overlouing
- 7. Exception Handling.



a class is a boilding block in oop -> It is a usex-defined data type, which holds its own datamembers and member functions. Which can be accessed and used by executing an instance of the class. A class is like a blue proint for an EZ Class Fruit Object

Mango, Osange

· 2 object :> An Object is an instance of a class

when a class is defined no memory is allocated but when it is instantiated (i.e. an object is (reated) memory is allocated.

Eg.

class person

chax name [20];

cintid: steel as dist satisfactory and the

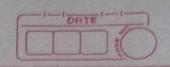
publication of a margarity

void getdetails () {} 13 Valed John Joo to mis voiem st

int main() - bet got too too pich ad

1 10 36A) XIF 10, +189 X3 310 00 50 17 person pt; Il pr is a objet

Object take up space in memory and have an associated address like a record in pascal or Structure or union inc



· 3 Ab Straction :+

Abstraction refers to Showing only the essential feach Features of the application and hiding the details in background or imprementation.

- abstraction in c++ using class.
- Abstraction in Header files: Abstraction in C++ can be header files.

Ex If we have to do some corrulation to the Power Of any number we can use the (Math.h) header file

Encapsulation: > def': > wrapping up of data and information under a single unit.

in ODP is encapsulation is defined as be binding together the data and the functions that manipulate Them

properties and characteristics from another class is called inheritance

CARONS VILL HOOM CON HOOPION

way to reuse once written code again and again.

Sub class: The class that inherits proporties from another class is called Sub class or Derived class or parent and chiral class. Super class: The class whose properties are inherited by sub class is called the base class

: Reusonity Thresitance supports the concepts
of resubility;

·6 Polymosphism > means having many forms

the lets as exerte functions with same name but different any uments, which will proform different actions with same name, but functioning in different way.

C++ Supposts operator orbifording and function overloading.

in different instances is known as operator

is using a single function name to perform different types of tasks

polymosphism is extensively used in implementing

SEARCHASS & The class that index 3s properties

the posited class or posmit medicin

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```
#include<stdio.h>
#include<iostream>
#include<conio.h>
#include<string.h>
using namespace std;
class bank
{
char name[20];
int Ano;
char atype[20];
float bal;
public:
void get(int no,char *n,char *t,float b)
{
strcpy(name,n);
Ano=no;
strcpy(atype,t);
bal=b;
}
float deposit()
{
float amt;
cin>>amt;
bal=bal+amt;
return bal;
}
float withdrw()
{
float amt;
cout<<"\nHow many Rupees did you withdraw:- ";</pre>
cin>>amt;cout<<"\n";
```

```
bal=bal-amt;
return bal;
}
void disp()
{
cout<<"\n\n*****check the entered values****";
cout<<"\n\nAccount number: "<<Ano;</pre>
cout<<"\nName: "<<name;</pre>
cout<<"\nAccount type: "<<atype;</pre>
cout<<"\n-----";
cout<<"\n\nEnter Deposit Amount: "<<deposit()<<" is total balance";</pre>
cout<<"\n-----"<<withdrw();
cout<<" is current Acount balance after withdraw: ";
}};
int main(void)
{
int n;
char nm[20],t[20];
float a;
bank bk;
cout<<"\nSCOB77_pratham_pitty\n";</pre>
cout<<"-----\n";
cout<<"\nEnter Account no.: "; cin>>n;
cout<<"\nEnter Account holder Name: "; cin>>nm;
cout<<"\nEnter account type: "; cin>>t;
cout<<"\nEnter balance amount: ";cin>>a;
cout<<"-----":
bk.get(n,nm,t,a);
bk.disp();
getch();
}
```

Select "C:\Users\prath\OneDrive\Desktop\code block 1\define a class to represent a bank account\main.exe"
SCOB77_pratham_pitty
Enter Account no.: 77
Enter Account holder Name: pratham
Enter account type: saving
Enter balance amount: 5000
*****check the entered values****
Account number: 77 Name: pratham Account type: saving
Enter Deposit Amount: 5000 10000 is total balance
How many Rupees did you withdraw:- 4000
6000 is current Acount balance after withdraw: _