

**Assignment 1**

**Total Marks 100**

**Deadline: 10th November, 2021**

**Question 1: Marks 80**

Create a class to represent a bank account, include the following members:

* 1. Data members:
     1. Account title (Character pointer)
     2. Account number (Character pointer)
     3. Balance (float)
  2. Member functions
     1. Deposit an amount
     2. Withdraw an amount
     3. Display name and balance

Do following steps to complete the class:

* Make default constructor, parameter constructor of balance and account number, and Destructor.
* Make separate setter and getter of each data member
* Make 2 different objects of class and apply following functions
  + Make object 1 using default constructor and other object using parameter constructor (Title = “Customer name”, “1456-8956-253”, balance=8000).
  + Object 1 must set title, account number and balance with 20000. Then withdrawn 20% of amount from original amount.
  + Object 2 set the account number=253-986-486 and set the name (as your choice).
  + Object 2 call deposit the amount and update balance of account.
  + Print name and balance of each object.
* Make another object with using copy constructor called object 3 and do following changes in it.
  + Now change the account title and account number.
  + Deposit 50000 in the account and display the details
  + withdraw 20% of balance and display the details.

Remember: Make a separate file for class and main to get the full marks.

**Question 2: Marks 20**

Find the error(s) in each of the following and explain how to correct it(them):

a) Assume the following prototype is declared in class Time:

void ~Time(int);

b) The following is a partial definition of class Time:

class Time

{

public:

// function prototypes

private:

int hour = 0;

int minute = 0;

int second = 0;

}; // end class Time

c) Assume the following prototype is declared in class Employee:

int Employee (char \*, char \*);

d) The following is a partial definition of class employee:

class Employee{

int Employee\_id;

char\* Name;

char\* department;

void display()

{

Cout<< “Name:” <<name;

Cout<< “id:” <<Employee\_id;

Cout<< “department:” <<department;

}

};

Int main(){

Empolyee E1;

E1.display();

}