PROGRAMMING FOR PROBLEM
SOLVING (18CSS101J)

Banking Management System

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OBJECTIVE

To make a banking management system which manages and handles the basics of banking ,i.e depositing and withdrawal of money.

CONCEPT USED

Structures ,arrays

PROBLEM DEFINITION

Take input of details of 5 users which have their name ,id, pin and bank balance. Using that help user to withdraw or deposit money into his bank account.

PURPOSE OF BANK MANAGEMENT SYSTEM

-This project has been developed to carry out the processes easily and quickly, which is not possible with the manual systems, which are overcome by this software.

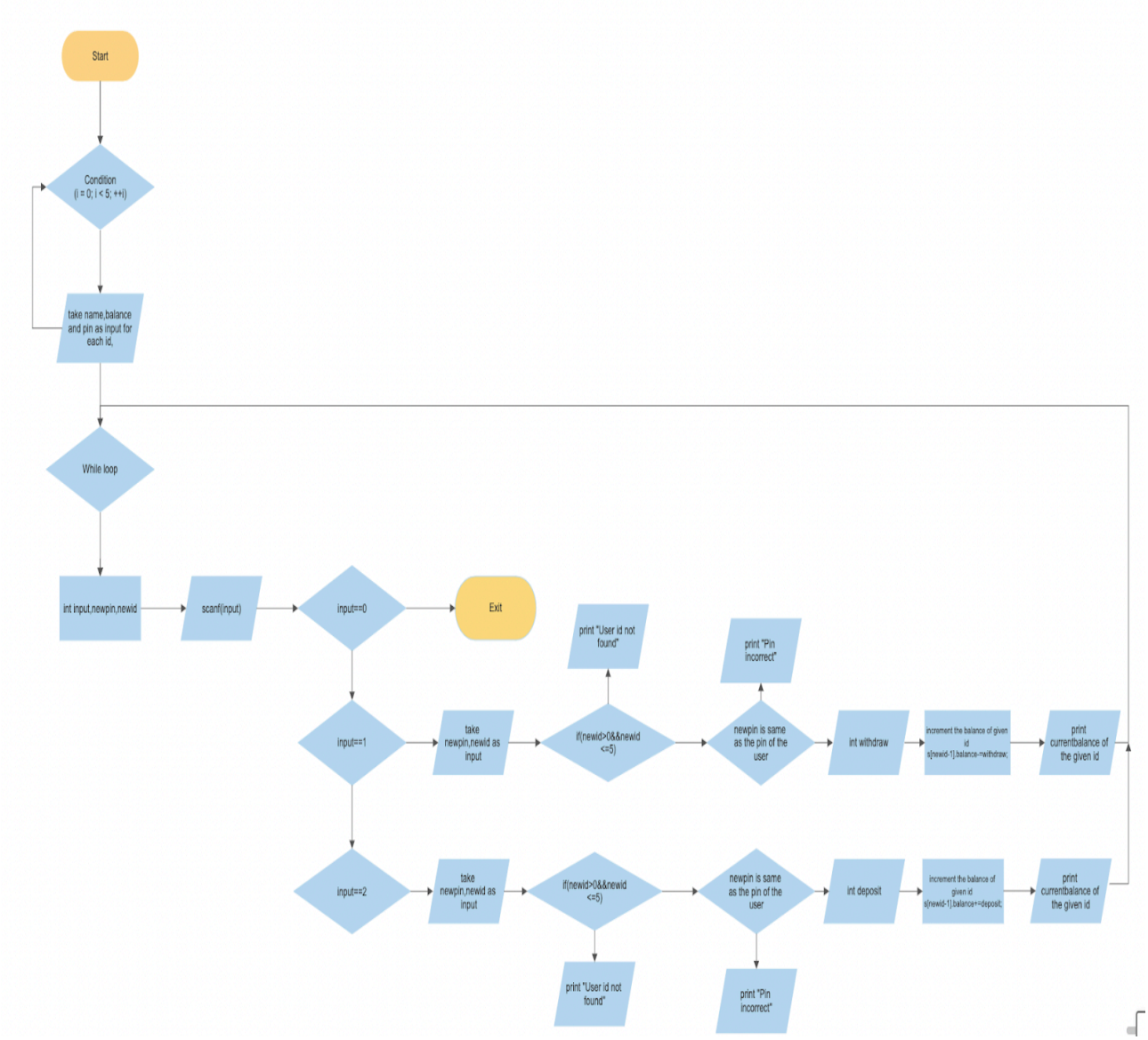
- It manages all the transactions like new account entry, deposit as well as withdrawal entry, transaction of money for various processes, etc Thus, above features of this software will save transaction time and therefore increase the efficiency of the system.

- It is simple and easy to use, it provides offline storage of data into local memory.
- This system is flexible and can be modified and changed as per requirement of different banking departments.

ALOGRITHM

Step 1: declare the structure which holds the basic data that is name, id ,pin, and balance of different users.
Step 2: Take input of all the details using a for loop.
Step 3: Now inside a while loop, take input of 0,1,2, where 0 for exiting the program,1 for withdrawal of money and 2 for depositing.
Step 4: Now take input of id and pin and verify the given details with details present in user structure.
Step 5: If details are correct ,then add the given money to balance if needed or subtract money if we need to deposit.

FLOWCHART



Code:

```
#include <stdio.h>
#include <string.h>

struct user {
   char firstName[50];
   int id;
   int pin;
   int balance;
} s[5];

int main() {
   int i;
   printf("Enter information of Users:\n");
   // storing information
   for (i = 0; i < 5; ++i) {
      s[i].id = i + 1;
      printf("\nFor id %d,\n", s[i].id);
      printf("Enter first name: ");
      scanf("%s", s[i].firstName);
      printf("Enter pin: ");
      scanf("%d", &s[i].pin);
      printf("Enter balance: ");
      scanf("%d", &s[i].balance);
   }

   while(1){
      int input,newid,newpin;
      printf("Enter 1 for withdrawl ,2 for depositing or 0 to exit: ");
      scanf("%d",&input);
      if(input==0){
         printf("Exit succesful");
         break;
      }else if(input==2){
         //depositing
            printf("Enter id: ");
            scanf("%d",&newid);
            printf("Enter Pin: ");
            scanf("%d",&newpin);
            if(newid>0&&newid<=5){
               if(s[newid-1].pin==newpin){
               printf("Enter how much you want to deposit?\n");
               int deposit;
               scanf("%d",&deposit);
                  s[newid-1].balance+=deposit;
                  printf("Depositing succesfull and current balance left: %d \n",s[newid-1].balance);
               }else{
                  printf("Pin incorrect\n");
               }
```

```
            }else{
                printf("User ID not found\n");
            }
        }else{
            //withrawal
            printf("Enter id: ");
            scanf("%d",&newid);
            printf("Enter Pin: ");
            scanf("%d",&newpin);
            if(newid>0&&newid<=5){
                if(s[newid-1].pin==newpin){
                printf("Enter how much you want to withdraw?\n");
                int temp=0;
                scanf("%d",&temp);
                if(temp<s[newid-1].balance){
                    s[newid-1].balance-=temp;
                    printf("Withdraw succesfully and current balance left: %d \n",s[newid-1].balance);
                    }else{
                        printf("Insufficient balance \n");
                    }
                }else{
                    printf("Pin incorrect\n");
                }

            }else{
                printf("User ID not found\n");
            }
        }


    }

    return 0;
}
```

Code can also be referred through this link: https://p.ip.fi/iaR-

```
Enter information of Users:

For id 1,
Enter first name: Tautik
Enter pin: 1910
Enter balance: 10000
For id 2,
Enter first name: Ramesh
Enter pin: 9999
Enter balance: 1000
For id 3,
Enter first name: Suresh
Enter pin: 1111
Enter balance: 5000
For id 4,
Enter first name: Rakesh
Enter pin: 875
Enter balance: 9999
For id 5,
Enter first name: Harshit
Enter pin: 3425
Enter balance: 5700
```

```
Enter 1 for withdrawl ,2 for depositing or 0 to exit: 1
Enter id: 1
Enter Pin: 1910
Enter how much you want to withdraw?
5000
Withdraw succesfully and current balance left: 5000
Enter 1 for withdrawl ,2 for depositing or 0 to exit: 2
Enter id: 5
Enter Pin: 3425
Enter how much you want to deposit?
1000
Depositing succesfull and current balance left: 6700
Enter 1 for withdrawl ,2 for depositing or 0 to exit: 1
Enter id: 1
Enter Pin: 1999
Pin incorrect
Enter 1 for withdrawl ,2 for depositing or 0 to exit: 1
Enter id: 1
Enter Pin: 1910
Enter how much you want to withdraw?
1000000
Insufficient balance
Enter 1 for withdrawl ,2 for depositing or 0 to exit: 0
Exit succesful
```