**Experiment :3**

BANK APLLICATION

**ALGORITHM**

Step 1: Start

Step 2: Declare and define structure “account” with variables “acc\_no”, “acc\_type”, “name[20]” and “balance”

Step 3: Declare variables “amt”, “arin”, “balance” and define array “customer []” with predefined data.

Step 4: Read account number from the user.

Step 5: Check if account number is valid. If not valid print “Invalid Account Number” GOTO 8.

Step 6: Check if account number is valid. Print Account Number, Account Type and Name.

Step 7: Read choice from the user.  
 Case ‘1’ – call “balance” function which prints account balance.

Case ‘2’ – call “deposits” function which deposits funds to current balance.

Case ‘3’ – call “withdraw” function which withdraws funds from current balance

Case ‘default’ – GOTO 8

Step 8: STOP

**Programs**

#include<stdio.h>

#define N 5 //number of customers

//structure to maintain accounts of customers

struct account{

long int accno;

char name[20];

char type;

float bal;

}custmer[N]={{101,"Vaibhav",'S',10000},

{102,"Mahesh",'S',12000},

{103,"Omkar",'S',14000},

{104,"Shrihari",'C',9000},

{105,"Shubham",'C',2000}

};

int accin;//to keep track of account index

float amount;

void deposit()//function to deposit amount

{

printf("Enter the amount = ");

scanf("%f",&amount);

printf("\n");

custmer[accin].bal=custmer[accin].bal+amount;//add amount to balance

balance();

}

void withdraw()//function to withdraw balance

{

printf("Enter the amount = ");

scanf("%f",&amount);

printf("\n");

//Check for balance availability

if(amount<=custmer[accin].bal)

{

custmer[accin].bal-=amount;//Withdraw Amount

balance();

}

else

{

printf("Insufficient Balance in your account\n");

balance();

return;

}

}

void balance()//display balance

{

printf("Balance = %f\n",custmer[accin].bal);

}

int main()

{

int accnum,i,ch,f=0;

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*BANK APPLICATION\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

start:

printf("\nEnter the Account number= ");//input account number

scanf("%d",&accnum);

for(i=0;i<N;i++)//check for existance of the account

{

if(accnum==custmer[i].accno)

{

accin=i;

f=1;

break;

}

}

if(f==0)

{

printf("\nInvalid Account number \n");

goto start;

}

//DISPLAY ACCOUNT INFO

printf("Account number= %d\nName : %s\nAccount type= %c\nBalance = %f\n",custmer[accin].accno,custmer[accin].name,custmer[accin].type,custmer[accin].bal);

while(1)

{

//DISPLAY MENU

printf("\nEnter your choice\n1 : Balance Inquiry\n2 : Deposit Amount \n3 : Withdraw Amount\n4 : Exit\n");

scanf("%d",&ch);//input choice

switch(ch)

{

case 1:balance();break;

case 2:deposit();break;

case 3:withdraw();break;

case 4:exit(0);

default:printf("Enter the correct choice");break;

}

}

return 0;

}

**Sample Input Output**

