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

Code:-

```
#include<stdio.h>
#include<stdlib.h>
typedef struct
{
int acc_no;
   char acc_type;
   char name[20];
   float balance;
}account;

account customer[10];
account customer[]={{100,'s',"swap",1000.90},    //customer information
                {101,'r',"chilli",3000.50},
                {102,'c',"kanade",5000},
                {103,'s',"shreyas",4000.80},
                {104,'s',"champpu",6000.3}
};
float amt;
int arin;
void balance()                    //function to display balance
{
printf("\nbalance()\n");
printf("\n\nyour account balance is %0.2f",customer[arin].balance);

}
void deposit()                //function to deposite function
{
```

```
printf("\ndeposit()\n");
printf("please enter the amount to be deposited:\n");
scanf("%f",&amt);
   customer[arin].balance+=amt;
printf("\nrs.%0.2f is deposited in your account\n",amt);
printf("\n\nthe current balance is %0.2f",customer[arin].balance);


}
void withdraw()             //function to withdraw balance
{
printf("\nwithdraw()\n");
printf("\nenter the amount to be withdrawn:");
scanf("%f",&amt);
   if(amt>customer[arin].balance)
printf("\nno sufficient balance:\n");
   else
   {
      customer[arin].balance-=amt;
printf("\nplease collect your amount.\n\nThe current balance is
%0.2f\n",customer[arin].balance);
   }



}
int main()
{
int accnum,choice;
int i,flag=0;
printf("\n----------");
```

```
printf("\nwelcome to the WORLD bank");
printf("\n------------");
printf("\nplease enter your 3 digit acount number\n");
scanf("%d",&accnum);
   for(i=0;i<5;i++)
   {
      if (customer[i].acc_no==accnum)
      {
         flag=1;
         break;
      }
      else
      {
         continue;

      }
   }
   if(flag==0)
   {
printf("\nsorry !!!!invalid account number\n");
exit(0);
   }
arin=accnum%100;
printf("\naccount number:%d\taccount
type:%c\t\tname:%s",customer[arin].acc_no,customer[arin].acc_type,customer[arin].name);
do{
printf("\n\nplease enter your choice:");
printf("\n\n1.balance enquiry 2.deposit 3.withdraw 4.exit :");
scanf("%d",&choice);
```

```
    switch(choice)              //case statement to evaluate desired choice
    {
        case 1:balance();
        break;
        case 2:deposit();
        break;
        case 3:withdraw();
        break;
default:exit(0);
    };
}while(1);
    return 0;

}
```

OUTPUT:-

"C:\Users\SWAPNIL\Desktop\C PROGRAM\C-LAB\bankapp.exe"

```
1.balance enquiry 2.deposit 3.withdraw 4.exit :2
please enter the amount to be deposited:2000

rs.2000.00 is deposited in your account

the current balance is 5000.50

please enter your choice:

1.balance enquiry 2.deposit 3.withdraw 4.exit :3

enter the amount to be withdrawn:6000

no sufficient balance:

please enter your choice:

1.balance enquiry 2.deposit 3.withdraw 4.exit :3

enter the amount to be withdrawn:2000

please collect your amount--------.

The current balance is 3000.50


please enter your choice:

1.balance enquiry 2.deposit 3.withdraw 4.exit :1


your account balance is 3000.50

please enter your choice:

1.balance enquiry 2.deposit 3.withdraw 4.exit :4

Process returned 0 (0x0)   execution time : 54.911 s
Press any key to continue.
```