

8) In an ATM system, two account balances need to be swapped temporarily for validation. Develop a C program that accepts two balances and uses a function with pointers to swap them. Display the balances before and after swapping.

```
#include <stdio.h>
// Function to swap two balances using pointers
void swapBalances(float *a, float *b)
{
    float temp = *a;
    *a = *b;
    *b = temp;
}
int main()
{
    float b1, b2;
    // Input balances
    printf("Enter balance of Account 1: ");
    scanf("%f", &b1);
    printf("Enter balance of Account 2: ");
    scanf("%f", &b2);

    // Display before swap
    printf("\nBefore Swapping:\n");
    printf("Account 1 Balance = %f\n", b1);
    printf("Account 2 Balance = %f\n", b2);

    // Call function to swap
    swapBalances(&b1, &b2);

    // Display after swap
    printf("\nAfter Swapping:\n");
    printf("Account 1 Balance = %f\n", b1);
    printf("Account 2 Balance = %f\n", b2);
    return 0;
}
```

Output:

1. Enter balance of Account 1: 5000
Enter balance of Account 2: 7500

Before Swapping:
Account 1 Balance = 5000.00
Account 2 Balance = 7500.00

After Swapping:
Account 1 Balance = 7500.00
Account 2 Balance = 5000.00