

PROBLEM 2.6

Two numbers are input through two locations c and d. Write a program to interchange contents of c and d.

ALGORITHM

1. Start
2. Declare integer variables a and b
3. Declare another variable temp
4. Take a and b as input
5. Display the values of the variables before swap
6. Assign a to temp
7. Assign b to a
8. Assign temp to b
9. Display values of a and b'
10. Stop

PSEUDOCODE

```
DECLARE INTEGER a and b
DECLARE INTEGER temp
INPUT a,b
DISPLAY "Before Swap"
DISPLAY a,b
ASSIGN a to temp
ASSIGN b to a
ASSIGN temp to b
DISPLAY "After Swap"
DISPLAY a,b
```

FLOWCHART

```
flowchart TD
A([Start]) --> B[Declare integer variables c,d,temp]
B --> C[/Take c and d as input/]
C --> D[/Display Before Swap/]
D --> E[/Display c and d/]
E --> F[Assign c to temp]
F --> G[Assign d to c]
G --> H[Assign temp to d]
H --> I[/Display After Swap/]
I --> J[/Display c and d/]
J --> K([Stop])
```