PROBLEM 4.3

Write a program to find the greatest of the three numbers entered through the keyboard. Use conditional operators.

ALGORITHM

- 1. Start
- 2. Declare integer variables a,b and c and take input
- 3. If a=b=c, display "all are equal". Else, go to step 4.
- 4. If a is greater than b and a is greater than c, display "a is greatest of three"
- 5. Else if b is greater than a and b is greater than c, display "b is greatest of three"
- 6. Else if c is greater than b and c is greater than a, display "c is greatest of three"
- 7. Stop ### PSEUDOCODE

```
START
DECLARE INTEGER a,b,c
INPUT a,b,c
IF a == b == c
    DISPLAY "All three are equal"
ELSE
    IF a>b AND a>c
        DISPLAY "a is greatest of three"
    FLSF.
        IF b>a AND b>c
            DISPLAY "b is greatest of three"
            DISPLAY "c is greatest of three"
        ENDIF
    ENDIF
ENDIF
STOP
```

FLOWCHART

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flowchart TD

A([Start]) --> B[/Declare integer variables a,b and c/]

B --> C[/Take a,b and c as input/]

C --> D{If a is equal to both b and c}

D --> |True|E[/Display "all numbers are equal"/]

D --> |False|F{If a is greater than both b and c}

F --> |True|G[/Display a is greatest of three/]

F --> |False| H{If b is greater than both a and c}

H --> |True| I[/Display b is greatest of three/]

H --> |False|J[/Display c is greatest of three/]
```

I --> K([Stop])
J --> K