

PROBLEM 3.3

Write a program to check whether a triangle is valid or not, if three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of all the three angles is equal to 180 degrees

ALGORITHM

1. Start
2. Declare integer variables a,b,c
3. If $a+b+c == 180$, display "Valid Triangle"
4. Else, display "Invalid triangle"
5. Stop

PSEUDOCODE:

```
DECLARE INTEGER a,b,c
INPUT a,b,c
IF a+b+c == 180
    DISPLAY "Valid Triangle"
ELSE
    DISPLAY "Invalid Triangle"
ENDIF
```

FLOWCHART

```
flowchart TD
A([Start]) --> B[Declare integer variables a,b,c]
B --> C{If a+b+c == 180}
C --> |True| D[/Display Valid Triangle/]
C --> |False| E[/Display Invalid Triangle/]
D --> F([Stop])
E --> F
```