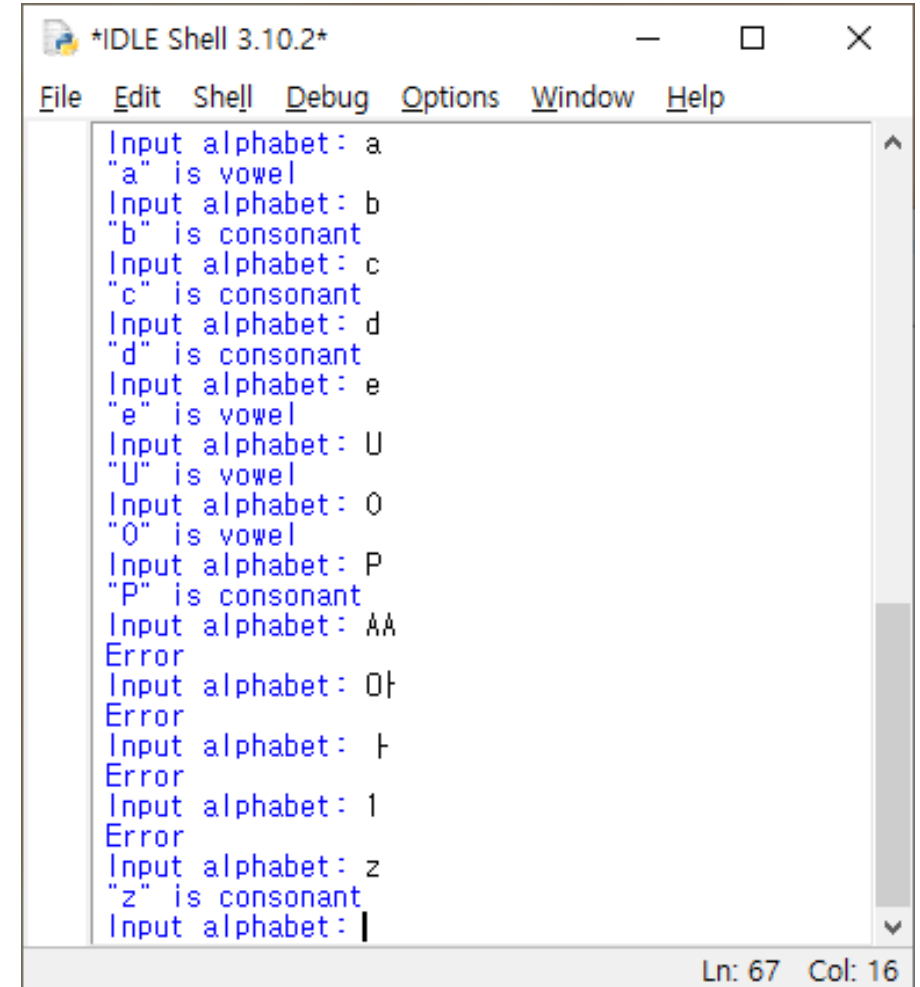# CPB221 Exercise ch05-2

5-4. Vowel and Consonant

- Get the single English alphabet from the user.

- Print whether the alphabet is vowel or consonant.

- If the input character is not the single alphabet, print Error.
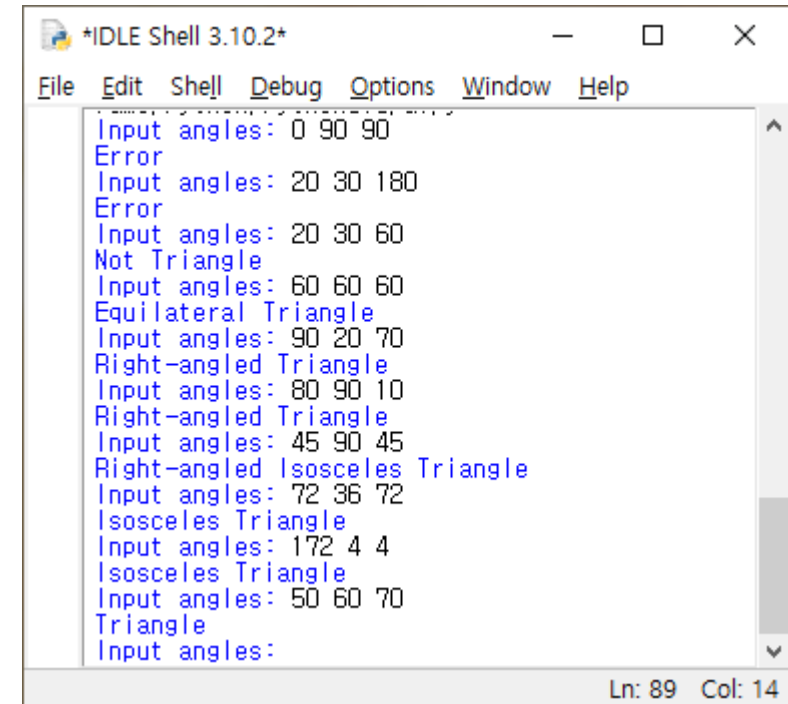
  - refer to var.encode().isalpha() expression

CPB221 Exercise ch05-2

5-5. Check Triangle 1

- Get the three angles of a triangle in one line from the user.

- If the triangle is not formed, print the message "Not Triangle".

- If it is an equilateral triangle (정삼각형), print "Equilateral Triangle",
  if it is an isosceles triangle (이등변삼각형), print "Isosceles Triangle",
  if it is a right-angled triangle (직각삼각형), print "Right-angled Triangle",
  if it is a right-angled isosceles triangle (직각이등변삼각형), print "Right-angled Isosceles Triangle",
  and if it is just a triangle, print "Triangle".

- If any value less than or equal to 0 or more than or equal to 180, print "Error".
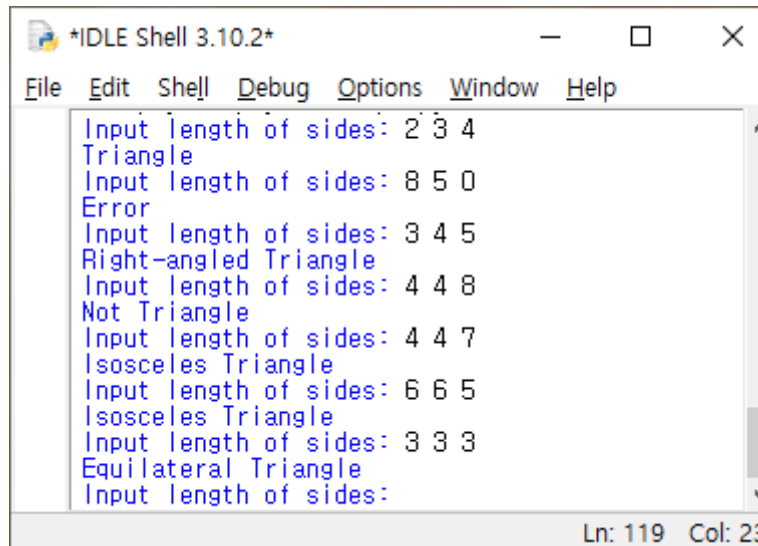
```
*IDLE Shell 3.10.2*                                    —    □    ×
File  Edit  Shell  Debug  Options  Window  Help
Input angles: 0 90 90
Error
Input angles: 20 30 180
Error
Input angles: 20 30 60
Not Triangle
Input angles: 60 60 60
Equilateral Triangle
Input angles: 90 20 70
Right-angled Triangle
Input angles: 80 90 10
Right-angled Triangle
Input angles: 45 90 45
Right-angled Isosceles Triangle
Input angles: 72 36 72
Isosceles Triangle
Input angles: 172 4 4
Isosceles Triangle
Input angles: 50 60 70
Triangle
Input angles:
                                                    Ln: 89  Col: 14
```

5-6. Check Triangle 2

- Get the length of three sides of a triangle in one line from the user.

- If the triangle is not formed, print the message "Not Triangle".

- If it is an equilateral triangle (정삼각형), print "Equilateral Triangle",
  if it is an isosceles triangle (이등변삼각형), print "Isosceles Triangle",
  if it is a right-angled triangle (직각삼각형), print "Right-angled Triangle",
  and if it is just a triangle, print "Triangle".

- If any value less than or equal to 0, print "Error".

```
*IDLE Shell 3.10.2*                                    —    □    ×

File  Edit  Shell  Debug  Options  Window  Help

Input length of sides: 2 3 4
Triangle
Input length of sides: 8 5 0
Error
Input length of sides: 3 4 5
Right-angled Triangle
Input length of sides: 4 4 8
Not Triangle
Input length of sides: 4 4 7
Isosceles Triangle
Input length of sides: 6 6 5
Isosceles Triangle
Input length of sides: 3 3 3
Equilateral Triangle
Input length of sides:

                                              Ln: 119  Col: 23
```