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oper	ands									
A	В	A ar	nd B	A	or B	not A	not B	not A and B	A or not B	
Т	Т									
Т	F									
F	Т									
F	F									
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Tru	Truth Tables operands										
Α	В	A and B	A or B	not A	notB	not A and B	A or not B				
Т	Т	Т	Т								
Т	F	F	Т								
F	Т	F	Т								
F	F F F F										
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Tru	Truth Tables										
A	В	A and B	A or B	not A	notB	not A and B	A or not B				
Т	Т	Т	Т	F	F						
Т	F	F	Т	F	Т						
F	Т	F	Т	Т	F						
F	F	F	F	Т	Т						
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Operands										
A	В	A and B	A or B	not A	notB	not A and B	A or not B			
Т	Т	Т	Т	F	F	F	Т			
Т	F	F	Т	F	Т	F	Т			
F	Т	F	Т	Т	F	Т	F			
F	FFFFFTTFT									
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String Operations									
Operand	Synt	ах	Meaning						
+	+ str1 + str2 Concatenate two strings into one string								
*	* str * num Concatenate string num times								
Examples: > "I feel " + "sleepy" • Evaluates to "I feel sleepy"									
> "Oops! " * 3									
• Evaluates to "Oops! Oops! Oops! "									
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Method	Operation
center(width)	Returns a copy of string centered within the given number of columns
<pre>count(sub[, start [, end]])</pre>	Return # of non-overlapping occurrences of substring Sub in the string.
endswith(sub), startswith(sub)	Return True iff string ends with/starts with sub
<pre>find(sub[, start [, end]])</pre>	Return first index where substring Sub is found
isalpha(), isdigit(), isspace()	Returns True iff string contains letters/ digits/whitespace only
lower(), upper()	Return a copy of string converted to lowercase/lowercase

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Common str Methods								
Method Operation								
replace(old, new[, count])	Returns a copy of string with all occurrences of substring old replaced by substring new . If count given, only replaces first count instances.							
<pre>split([sep])</pre>	Return a list of the words in the string, using sep as the delimiter string. If sep is not specified or is None, any whitespace string is a separator.							
strip()	Return a copy of the string with the leading a trailing whitespace removed							
join(<sequence>)</sequence>	Return a string which is the concatenation of the strings in the sequence with the string this is called on as the separator							
swapcase()	Return a copy of the string with uppercase characters converted to lowercase and vice versa.							
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Exam	Exam 1 Results							
		А	В	С	Total			
	Average	77	75	80	83			
	Median	76	75	84	86			
 Buc Not Trac wh² <= i 	Igeting tim More than answering cing throu use control ile loop nstead of	The I asked for part of the gh if pr flow diagr → for I	e question oblem, fix ams loop	ing code				
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Simplifying	g Code								
word=str(input)	("Enter a word: "))								
<pre>#create word in #slice string s first_letter=we word_slice=word</pre>	<pre>#create word in clunky pig latin #slice string so that first letter is moved to the end first_letter=word[0:1] word_slice=word[1:]</pre>								
#add 'ay' to tl pig_latin=word	ne end of the word _slice+first_letter+"ay"								
print("In clun	ky pig latin, that word is", pig	j_latin)							
Hov	v can we simplify this code?								
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Error Handling

```
WIDTH_INPUT = "Enter a width (" +str(WMIN)+"-"+str(WMAX) + "): "
HEIGHT_INPUT ="Enter a height ("+str(HMIN)+"-"+str(HMAX) + "): "
width = int(input(WIDTH_INPUT))
height = int(input(HEIGHT_INPUT))
error = False
errorMessage = "\nError: \n"
if width < WMIN or width > WMAX:
    error = True
    errorMessage += "\tWidth (" +str(width) + ") is not within
        range (" + str(WMIN) + "-" + str(WMAX) + ")\n"
if height < HMIN or height > HMAX:
    error = True
    errorMessage += "\tHeight (" +str(height) + ") is not within
        range ("+ str(HMIN) + "-" + str(HMAX) + ")\n"
if height < HMIN or height > HMAX:
    error = True
    errorMessage += "\tHeight (" +str(height) + ") is not within
        range ("+ str(HMIN) + "-" + str(HMAX) + ")\n"
if error:
    print(errorMessage)
    sys.exit(1)
```

