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Understanding the problem: This problem is about letting the user input a string of chars, then make a program to change those chars to number in binary. Also, letting the user input a string of 0s and 1s number. Before turning them into ASCII value, the program should be able to check the user_input are 1s or 0s only.

Devising a plan: Step 1: Ask the user input a string of any chars. Step 2: Changing the user_input to decimal and then, change the decimal to binary. Step 3: Ask the user input a string of 0s or 1s only number. Step 4: Checking the user_input is 0s or 1s only or not. Step 5: Printing out the chars, which changed from the user_input by ASCII value.

Testing:

1. Typing a different Char and typing a different string of Char five times to check if the program working on both and if both can print the right number in binary, which is based on ASCII value, then it is good.

2. In the second step, input a number is not 1s or 0s only see if it print a error message and send the user back to input a values in base 2.

3. Input a number is 1s or 0s only to see if it can print the number match to the ASCII value in binary.

Testing for Assignment 3 is same as testing assignment 2.