Task 1:

Objective : remove the special character

1. Use for loop to check each item in user.
2. Next use built-in function (.isalpha) to check item is alpha or not.
3. If value is alpha store in a new variable .
4. If value is not alpha remove it.
5. At last print the result.

Task 2 :

Objective : sort it by letter and alphabet and don’t use sort

By words

1. First split the user using spilt function
2. Then use a for loop for each item in user
3. Use built-in function (min) to sort
4. Append it to a new variable
5. Find smallest and add it into new variable
6. Empty list to store sorted words.
7. Joins sorted words into a string and print result

By alphabet

1. Create a empty list
2. Use for loop for user and remove spaces
3. Then use bubble sort to sort it by alphabetically.
4. Joins the sorted list back into a string.
5. Print result

Task 3

Objective : LUHN Algorithms

1. Write card number as space separated digit
2. Remove the last digit and store it in a new variable
3. Return the new number without last digit
4. Reverse the last string
5. If the digit is even, multiply it by 2.
6. If the result is **greater than 9**, subtract 9.
7. If the digit is **odd**, keep it unchanged.
8. Keep track of the transformed digits and update the running **sum.**
9. Maintain sequence as reversed sequence
10. Add up the total sum of all digit
11. Check availability if sum of total and last digit divide by 10 if divided then card is valid otherwise it is invalid