

Write a Python program to find unique characters in a string and count the number of characters in the string. Also, remove duplicate characters and return a new string.

```
def count_characters(string):  
    char_count = {}  
    for char in string:  
        if char in char_count:  
            char_count[char] += 1  
        else:  
            char_count[char] = 1  
  
    # Remove duplicates while preserving order  
    unique_chars = ''.join(char for char in char_count.keys())  
    return char_count, unique_chars  
  
# Example usage  
input_str = "welcometocodeparadise"  
char_count, unique_chars = count_characters(input_str)  
  
print("Unique characters:", unique_chars)  
print("Total character counts:", len(input_str))  
print("Character counts:")  
  
for char, count in char_count.items():  
    print(f"{char} : {count}")  
  
---
```



Sample Output:

Unique characters: welcomtdparis

Total character counts: 21

Character counts:

w : 1

e : 4

l : 1

c : 2

o : 3

m : 1

t : 1

d : 2

p : 1

a : 2

r : 1

i : 1

s : 1

