Highest Frequency Char in C++ #include <iostream> #include <unordered_map> #include <string> using namespace std; char getHighestFrequencyChar(string str) { unordered_map<char, int> hm; // HashMap to store character frequencies // Count frequencies of characters in the string for (char ch : str) { hm[ch]++; char mfc = str[0]; // Initialize most frequent character with the first character // Find the character with the highest frequency for (auto it = hm.begin(); it != hm.end(); ++it) { if (it->second > hm[mfc]) { mfc = it - sfirst;} return mfc; int main() { string str ="zm szeqx llzvheqwrofg cuntypejc xovtaqbnqyqlmrwitchar highestFreqChar = getHighestFrequencyChar(str); cout << highestFreqChar << endl;</pre> return 0;

Input

String:

"zmszeqxllzvheqwrofgcuntypejcxovtaqbnqyqlmrwitc"

Step 1: Count Character Frequencies

We iterate through the string str and populate the unordered_map (hm) with the count of each character.

Character Frequency Count:

Character	Count			
Z	3			
m	3			
s	2			
е	4			
q	4			
X	2			
1	3			
V	2			
h	1			
W	2			
r	2			
0	2			
f	1			
g	1			
c	2			
u	1			
n	2			
t	2			
У	3			
р	1			
j	1			
a	1			
b	1			

i	1

Step 2: Find the Character with the Highest Frequency

We iterate through the unordered_map (hm) and keep track of the character with the maximum frequency (mfc). Initially, mfc is set to the first character of the string, z.

Iteration Over HashMap:

Current Character	Frequency	hm[mfc]	Update mfc?	Updated mfc	
z	3	3	No	Z	
m	3	3	No	Z	
s	2	3	No	Z	
e	4	3	Yes	e	
q	4	4	No	e	
X	2	4	No	e	
1	3	4	No	e	
v	2	4	No	e	
h	1	4	No	e	
w	2	4	No	e	
r	2	4	No	e	
o	2	4	No	e	
f	1	4	No	e	
g	1	4	No	e	
c	2	4	No	e	
u	1	4	No	e	
n	2	4	No	e	
t	2	4	No	e	
У	3	4	No	e	
p	1	4	No	e	
j	1	4	No	e	
a	1	4	No	e	

11	Current haracter	Frequency	hm[mfc]	Update mfc?	Updated mfc
b		1	4	No	e
i		1	4	No	e
The		out r with the hi times in the		uency is (q,