**2)** Write a C program that contains a string (char pointer) with a value \HelloWorld’. The program should AND or and XOR each character in this string with 127 and display the result.

**PROGRAM:**

#include <stdio.h>

#include <string.h>

int main() {

char message[] = "Hello World";

char operation;

int length = strlen(message);

int i;

printf("Enter operation (A/X): ");

scanf(" %c", &operation);

if (operation == 'A' || operation == 'a') {

printf("Performing AND operation...\n");

for (i = 0; i < length; i++) {

message[i] = message[i] & 127;

}

} else if (operation == 'X' || operation == 'x') {

printf("Performing XOR operation...\n");

for (i = 0; i < length; i++) {

message[i] = message[i] ^ 127;

}

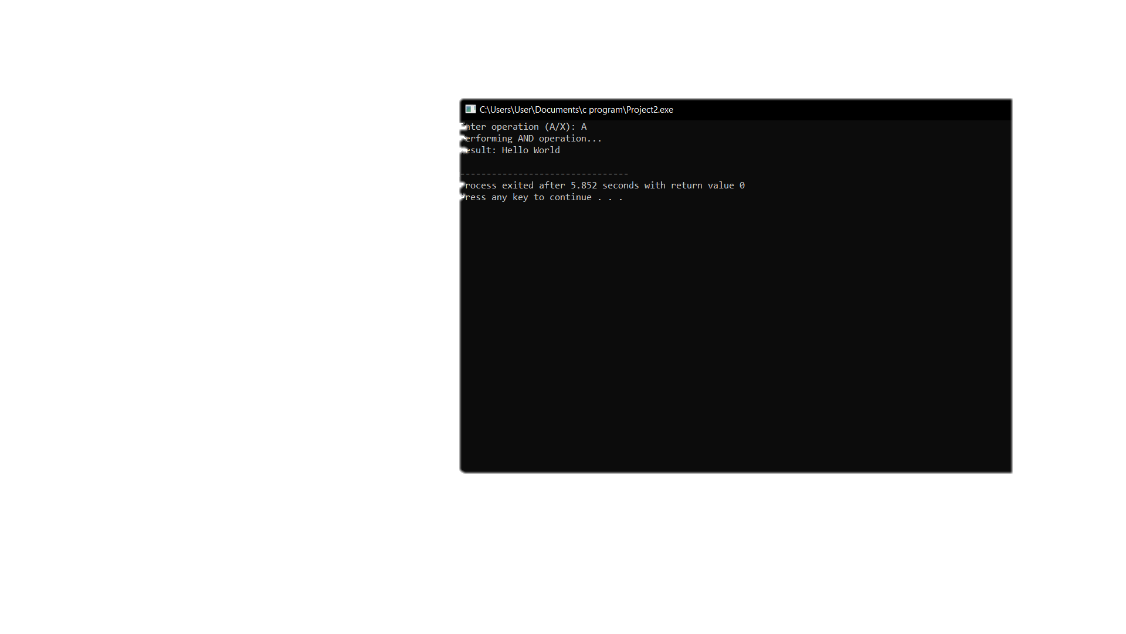
} else {

printf("Invalid operation.\n");

return 1;

}

printf("Result: %s\n", message);

return 0; ****

}