**Experiment No.1**

#include <stdio.h>

int main()

{

int i, x;

char str[100];

printf("\nPlease enter a string:\t");

gets(str);

printf("\nPlease choose following options:\n");

printf("1 = Encrypt the string.\n");

printf("2 = Decrypt the string.\n");

scanf("%d", &x);

//using switch case statements

switch(x)

{

case 1:

for(i = 0; (i < 100 && str[i] != '\0'); i++)

str[i] = str[i] + 3; //the key for encryption is 3 that is added to ASCII value

printf("\nEncrypted string: %s\n", str);

break;

case 2:

for(i = 0; (i < 100 && str[i] != '\0'); i++)

str[i] = str[i] - 3; //the key for encryption is 3 that is subtracted to ASCII value

printf("\nDecrypted string: %s\n", str);

break;

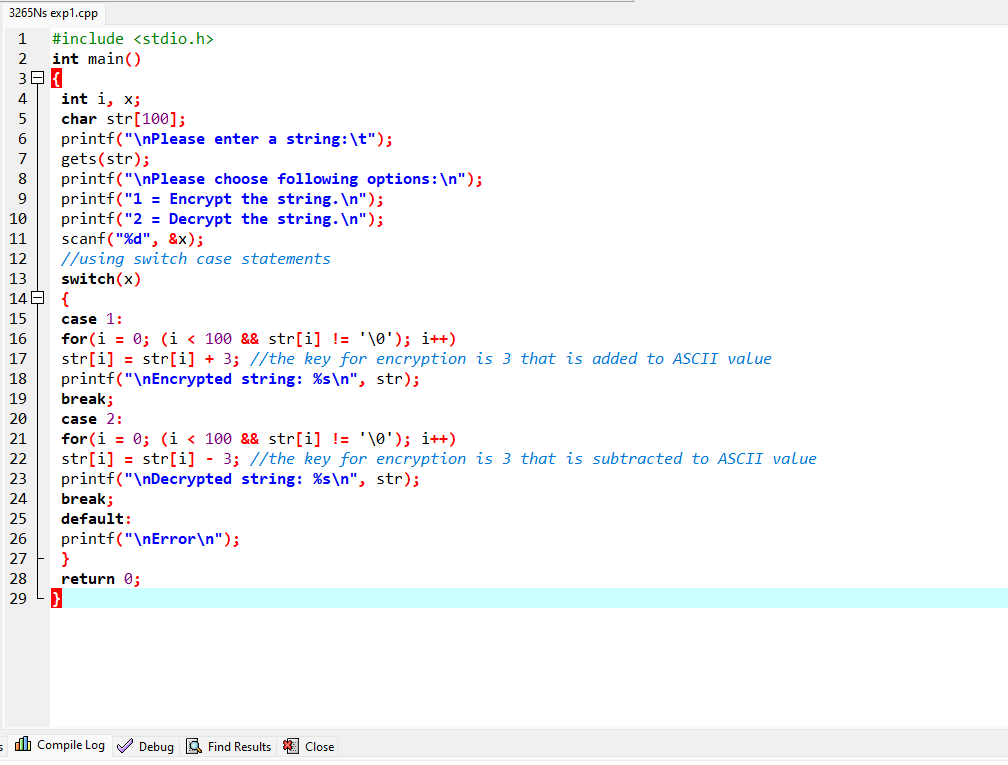
default:

printf("\nError\n");

}

return 0;

}



**OUTPUT:**

Text

Description automatically generated

Text

Description automatically generated