**Program to find 2’s complement**

**#include <iostream>**

**using namespace std;**

**int main()**

**{**

**int bs;**

**cout<<"Enter bit size (4, 6, 8) : ";**

**cin>>bs;**

**char bn[bs + 1], oc[bs + 1], tc[bs + 1];**

**int i, c=1;**

**int r = 0;**

**cout << " Input a " << bs << " bit binary value: ";**

**cin >> bn;**

**for (i = 0; i < bs; i++)**

**{**

**if (bn[i] == '1')**

**{**

**oc[i] = '0';**

**}**

**else if (bn[i] == '0')**

**{**

**oc[i] = '1';**

**}**

**else**

**{**

**cout << "Invalid Input. please enter in 0/1." << endl;**

**r = 1;**

**break;**

**}**

**}**

**oc[bs] = '\0';**

**for (i = bs - 1; i >= 0; i--)**

**{**

**if (oc[i] == '1' && c == 1)**

**{**

**tc[i] = '0';**

**}**

**else if (oc[i] == '0' && c == 1)**

**{**

**tc[i] = '1';**

**c = 0;**

**}**

**else**

**{**

**tc[i] = oc[i];**

**}**

**}**

**tc[bs] = '\0';**

**if (r == 0)**

**{**

**cout << "----------------------------------------------\n";**

**cout << " The original binary = " << bn << endl;**

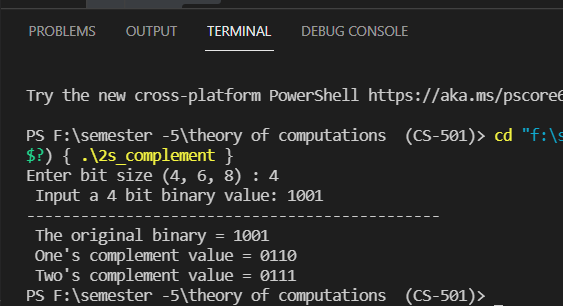
**cout << " One's complement value = " << oc << endl;**

**cout << " Two's complement value = " << tc << endl;**

**}**

**}**

**Output:**

****