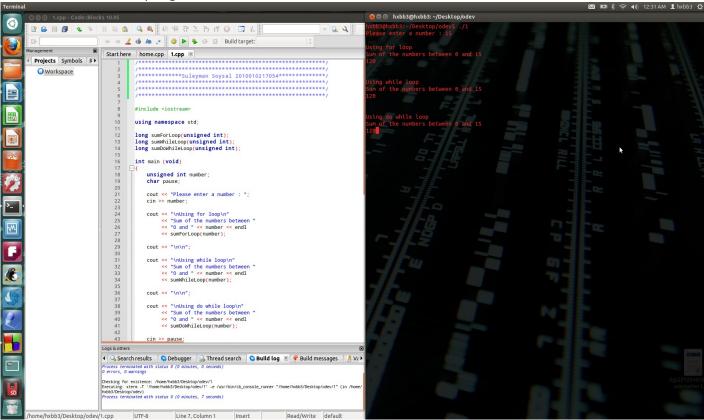
Answer 1: Calculate to sum of the numbers between 0 and entered number.

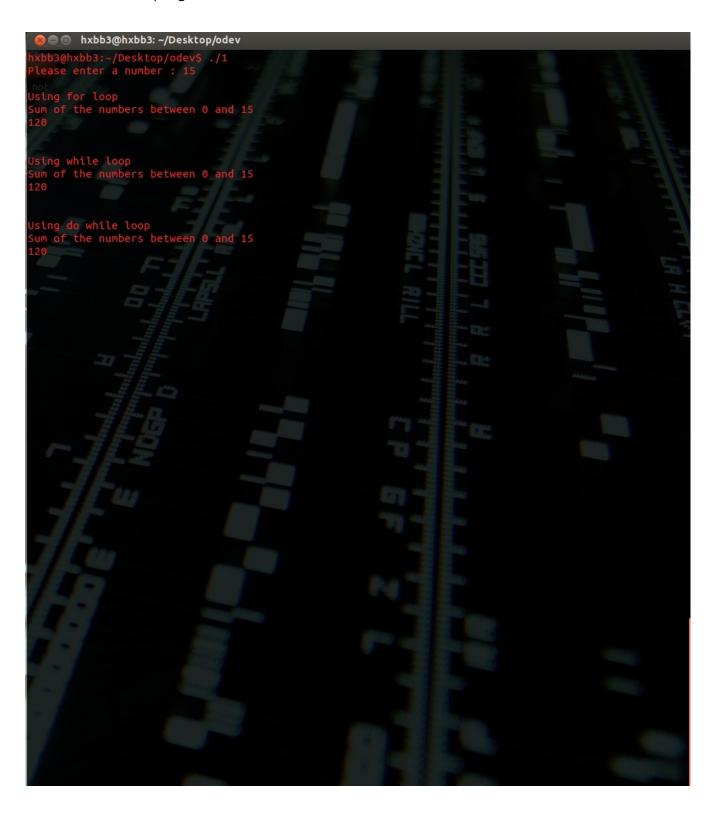
```
Source Code :
 1 /
 2
    /**********titaNWare************************/
    5
 6
 8
    #include <iostream>
 9
    using namespace std;
10
11
12
    long sumForLoop(unsigned int);
    long sumWhileLoop(unsigned int);
13
14
    long sumDoWhileLoop(unsigned int);
15
    int main (void)
16
17
18
         unsigned int number;
19
         char pause;
20
21
         cout << "Please enter a number : ";</pre>
22
        cin >> number;
23
         cout << "for loop"</pre>
24
              << "Sum of the numbers between "
<< "O and " << number << endl
25
26
              << sumForLoop(number);</pre>
27
28
        cout << "";
29
30
31
        cout << "while loop"</pre>
              << "Sum of the numbers between "
<< "0 and " << number << endl</pre>
32
33
34
              << sumWhileLoop(number);</pre>
35
36
        cout << "";
37
38
        cout << "do while loop"</pre>
              << "Sum of the numbers between "
<< "0 and " << number << endl</pre>
39
40
41
              << sumDoWhileLoop(number);</pre>
42
43
        cin >> pause;
44
         return 0;
45
    }
46
47
    long sumForLoop(unsigned int number)
48
49
         unsigned int counter;
         long sum=0;
50
51
         for(counter=number; counter>0; counter--)
52
53
54
             sum += counter;
55
56
         return sum;
57
    }
58
    long sumWhileLoop(unsigned int number)
59
60
61
         unsigned int counter;
62
         long sum=0;
63
        counter=number;
64
         while(counter > 0)
65
66
67
             sum += counter;
68
             counter --;
69
70
         return sum;
71
    }
```

```
73
    long sumDoWhileLoop(unsigned int number)
74
75
        unsigned int counter;
76
        long sum=0;
77
78
        counter = number;
79
80
81
            sum += counter;
82
            counter --;
83
        }while(counter > 0);
84
85
        return sum;
86
   }
87
88
89
90
```

Screen shot 1 for program 1:



Screen shot for program 1 :

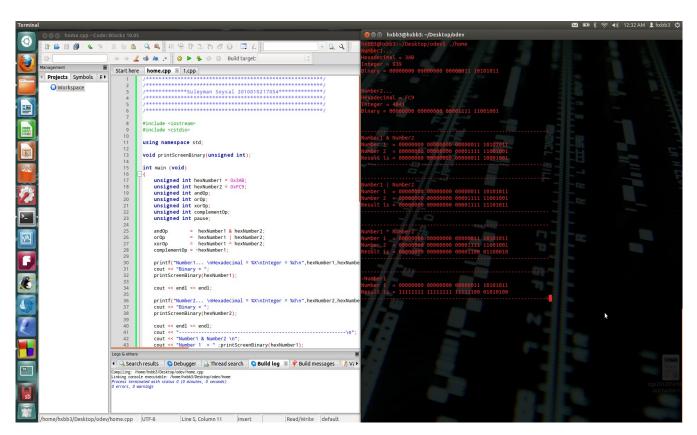


Source code :

```
/******************************
   #include <iostream>
 8
   #include <cstdio>
10
   using namespace std;
11
12
13
   void printScreenBinary(unsigned int);
14
15
   int main (void)
16
17
       unsigned int hexNumber1 = 0x3AB;
       unsigned int hexNumber2 = 0xFC9;
18
       unsigned int andOp;
19
20
       unsigned int orOp;
       unsigned int xor0p;
unsigned int complement0p;
21
22
       unsigned int pause;
23
24
25
                  = hexNumber1 & hexNumber2;
       and0p
             = hexNumber1 | hexNumber2;
= hexNumber1 ^ hexNumber2;
26
       or0p
27
28
       complementOp = ~hexNumber1;
29
       printf("Number1... = %X= %d", hexNumber1, hexNumber1);
cout << "Binary = ";</pre>
30
31
32
       printScreenBinary(hexNumber1);
33
34
       cout << endl << endl;</pre>
35
36
       printf("Number2... = %X= %d", hexNumber2, hexNumber2);
       cout << "Binary = ";</pre>
37
       printScreenBinary(hexNumber2);
38
39
       cout << endl << endl;</pre>
40
41
       cout << "-----";
42
       cout << "Number1 & Number2 ":</pre>
       cout << "Number 1 = " ;printScreenBinary(hexNumber1);
cout << "Number 2 = " ;printScreenBinary(hexNumber2);</pre>
43
44
       cout << "Result is = ";printScreenBinary(andOp);</pre>
45
       cout << "-----
                                            ----";
46
47
48
       cout << endl << endl;</pre>
49
       cout << "-----
       cout << "Number1 | Number2 ";</pre>
50
       cout << "Number 1 = " ;printScreenBinary(hexNumber1);
cout << "Number 2 = " ;printScreenBinary(hexNumber2);</pre>
51
52
       cout << "Result is = ";printScreenBinary(orOp);</pre>
53
       cout << "-----";
54
55
       cout << endl << endl;</pre>
56
       cout << "----";
57
       cout << "Number1 ^ Number2 ";</pre>
58
       cout << "Number 1 = " ;printScreenBinary(hexNumber1);
cout << "Number 2 = " ;printScreenBinary(hexNumber2);</pre>
59
60
       cout << "Result is = ";printScreenBinary(xor0p);</pre>
61
       cout << "-----
                               ----";
62
63
64
       cout << endl << endl;</pre>
       cout << "-----
                           ------";
65
       cout << "~Number1";
cout << "Number 1 = " ;printScreenBinary(hexNumber1);</pre>
66
67
       cout << "Result is = ";printScreenBinary(complementOp);</pre>
68
69
70
```

```
71
         cin >> pause;
72
         return 0;
73
74
75
    void printScreenBinary(unsigned int number)
76
         unsigned int counter;
77
78
         unsigned int mask = 1 << 31;</pre>
79
80
         for(counter=1; counter<=32; counter++)</pre>
81
              if(number & mask) cout << "1";</pre>
82
              else cout << "0";</pre>
83
84
              number <<=1;
85
              if(counter % 8 == 0)
cout << " ";</pre>
86
87
88
         cout << "";
89
90
    }
91
```

Screen shot for program 2 :



Screen shot 2 for program 2 :

