



COLLEGE OF ENGINEERING AND COMPUTER STUDIES

PERFORMANCE TASK #1

[Odd or Even scheme]

Subject Code / Description
CPFL – Fundamentals of Programming Lab

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Course & Section
BSCS 1-1

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I. INTRODUCTION

A. Problem Description

Your task is to write a real, interactive, odd/even number scheme. Logically the program will tell if the number is odd or even number for a series of int inputs.

B. Objectives

- using the while loop and if conditional statement;
- and improve your skills in building interactive programs with loops.

II. CONCEPTUAL FRAMEWORK

INPUT	PROCESS	OUTPUT
Range	<pre>cout << "Enter a range of number:"; cin >> N;</pre>	Range
Number/s	<pre>cout << "Enter a number/s :"; cin >> N1 >> N2 >> N3 >> N4 >> N5;</pre>	Number/s

III. I/O SCREEN SHOTS

INPUT:

```
C:\Users\user\Downloads> g++ odd.cpp -o odd.exe
1 //Name      : Mike Villegas
2 //Activity Name: PT 1
3 //Description : Odd or even scheme
4 //Date       : 10/10/21
5
6
7 #include <iostream>
8 using namespace std;
9
10 int main()
11 {
12     int N;
13     int N1, N2, N3, N4, N5;
14     cout << "Enter a range of number:";
15     cin >> N;
16
17     do{
18         if (N == 5) //If range entered is 5
19         {
20             cout << "Enter a number/s :";
21             cin >> N1 >> N2 >> N3 >> N4 >> N5;
22
23             if (N1 % 2 == 0 )
24             {
25                 cout << N1 << " IS EVEN\n";
26             }
27             else
28             {
29                 cout << N1 << " IS ODD\n";
30             }
31
32             if (N2 % 2 == 0 )
33             {
34                 cout << N2 << " IS EVEN\n";
35             }
36             else
37             {
38                 cout << N2 << " IS ODD\n";
39             }
40
41             if (N3 % 2 == 0 )
42             {
43                 cout << N3 << " IS EVEN\n";
44             }
45             else
46             {
47                 cout << N3 << " IS ODD\n";
48             }
49
50             if (N4 % 2 == 0 )
51             {
52                 cout << N4 << " IS EVEN\n";
53             }
54             else
55             {
56                 cout << N4 << " IS ODD\n";
57             }
58
59             if (N5 % 2 == 0 )
60             {
61                 cout << N5 << " IS EVEN\n";
62             }
63             else
64             {
65                 cout << N5 << " IS ODD\n";
66             }
67         }
68     }
69
70     else if (N == 4) //If range entered is 4
71     {
72         cout << "Enter a number/s :";
73         cin >> N1 >> N2 >> N3 >> N4;
74
75         if (N1 % 2 == 0 )
76         {
77             cout << N1 << " IS EVEN\n";
78         }
79         else
80         {
81             cout << N1 << " IS ODD\n";
82         }
83
84         if (N2 % 2 == 0 )
85         {
86             cout << N2 << " IS EVEN\n";
87         }
88         else
89         {
90             cout << N2 << " IS ODD\n";
91         }
92
93         if (N3 % 2 == 0 )
94         {
95             cout << N3 << " IS EVEN\n";
96         }
97         else
98         {
99             cout << N3 << " IS ODD\n";
100         }
```

```
101         cout << N3 << " IS ODD\n";
102     }
103 }
104
105     if (N4 % 2 == 0 )
106     {
107         cout << N4 << " IS EVEN\n";
108     }
109     else
110     {
111         cout << N4 << " IS ODD\n";
112     }
113 }
114
115 else if (N == 3)//If range entered is 3
116 {
117     cout << "Enter a number/s :";
118     cin >> N1 >> N2 >> N3;
119
120     if (N1 % 2 == 0 )
121     {
122         cout << N1 << " IS EVEN\n";
123     }
124     else
125     {
126         cout << N1 << " IS ODD\n";
127     }
128
129     if (N2 % 2 == 0 )
130     {
131         cout << N2 << " IS EVEN\n";
132     }
133     else
134     {
135         cout << N2 << " IS ODD\n";
136     }
137
138     if (N3 % 2 == 0 )
139     {
140         cout << N3 << " IS EVEN\n";
141     }
142     else
143     {
144         cout << N3 << " IS ODD\n";
145     }
146 }
147
148 else if (N == 2)//If range entered is 2
149 {
150     cout << "Enter a number/s :";
151     cin >> N1 >> N2;
152
153     if (N1 % 2 == 0 )
154     {
155         cout << N1 << " IS EVEN\n";
156     }
157     else
158     {
159         cout << N1 << " IS ODD\n";
160     }
161
162     if (N2 % 2 == 0 )
163     {
164         cout << N2 << " IS EVEN\n";
165     }
166     else
167     {
168         cout << N2 << " IS ODD\n";
169     }
170 }
171
172 else if (N == 1)//If range entered is 1
173 {
174     cout << "Enter a number/s :";
175     cin >> N1;
176
177     if (N1 % 2 == 0 )
178     {
179         cout << N1 << " IS EVEN\n";
180     }
181     else
182     {
183         cout << N1 << " IS ODD\n";
184     }
185 }
186
187 else//If range entered is not within the limit
188 {
189     cout << "Invalid Input! Only enter numbers [1-5]";
190 }
191
192 }
193 while(N = 0);
194
195 return 0;
196 }
197 }
```



OUTPUT:

```
Enter a range of number:5
Enter a number/s :15 23 58 49 65
15 IS ODD
23 IS ODD
58 IS EVEN
49 IS ODD
65 IS ODD
PS C:\Users\63997\Downloads>
```

```
Enter a range of number:3
Enter a number/s :864 531 654
864 IS EVEN
531 IS ODD
654 IS EVEN
PS C:\Users\63997\Downloads>
```

```
PS C:\Users\63997\Downloads> cd C:\Users\63997\Downloads
Enter a range of number:0
Invalid Input! Only enter numbers [1-5]
PS C:\Users\63997\Downloads>
```

```
Enter a range of number:4
Enter a number/s :32 89 456 357
32 IS EVEN
89 IS ODD
456 IS EVEN
357 IS ODD
PS C:\Users\63997\Downloads>
```

IV. PROGRAM SOURCE CODE (Main Logic Only)

```
if (N == 5) //If range entered is 5
{
    cout << "Enter a number/s :";
    cin >> N1 >> N2 >> N3 >> N4 >> N5;

    if (N1 % 2 == 0 )
    {
        cout << N1 << " IS EVEN\n";
    }
    else
    {
        cout << N1 << " IS ODD\n";
    }

    if (N2 % 2 == 0 )
    {
        cout << N2 << " IS EVEN\n";
    }
    else
    {
        cout << N2 << " IS ODD\n";
    }

    if (N3 % 2 == 0 )
    {
        cout << N3 << " IS EVEN\n";
    }
    else
    {
        cout << N3 << " IS ODD\n";
    }

    if (N4 % 2 == 0 )
    {
        cout << N4 << " IS EVEN\n";
    }
    else
    {
        cout << N4 << " IS ODD\n";
    }
}
```



```
    }  
  
    if (N5 % 2 == 0 )  
    {  
        cout << N5 << " IS EVEN\n";  
    }  
    else  
    {  
        cout << N5 << " IS ODD\n";  
    }  
}
```

V. GitHub ACTIVITY LINK

<https://github.com/MikeVillegas00/Activities/blob/master/PT1.cpp>

VI. LEARNING OUTCOMES

I learned the use of modulo operator and setting up range thresholds.

VII. REFERENCES

<https://www.programiz.com/cpp-programming/do-while-loop>

<https://www.sanfoundry.com/cpp-program-check-given-integer-even-or-odd/>