

**North South University**  
**Department of Electrical and Computer Engineering**  
**CSE 215L: Programming Language II Lab**

**Lab – 2: Conditional Statement, Loop**

**Objective:**

- To learn to use conditional statements (if, else, switch case)
- To learn the usage of loops (for, while, do-while)

<i><b>if-else</b></i>	<i><b>Switch</b></i>
<pre>if(condition){     // do something } else{     // do something else }</pre>	<pre>switch(case){     case 1:         // do things for case 1         break;     case 2:         // do things for case 2         break;     default:         // do things for default case }</pre>
<i><b>For</b></i>	<i><b>while</b></i>
<pre>for(int i = 0; i &lt; 10; i++){     // do something }</pre>	<pre>while(condition){     // do something }</pre>

**Task:**

1. Write a program that takes an integer and determines if it's odd or even. Use switch cases to produce result.
2. Write a program that takes an integer and determines if it's prime or not. A number is prime if it is divisible by 1 and itself only, i.e. 2, 3, 11, 37 etc.
3. Write a program that prints the multiplication table from 1 to 5.  
1 X 1 = 1  
1 X 2 = 2  
.....  
5 X 10 = 50
4. Write a program that takes an integer and prints its divisors, i.e. divisors of 12 are 1, 2, 3, 4, 6.