

## CSE 115L: Programming Language I Lab (Section: 06)

Spring 2020

Lab Week-03

if-else statement:

Basic Syntax of if-else	Example 1 (If true, print- "The statement is true!!")
<pre>If(condition) {     Statements; } else {     Statements; }</pre> <p>Condition is a Boolean expression written with <b>only relational operators or logical operators or combination of both.</b></p>	<pre>#include&lt;stdio.h&gt;  int main(void) {     if(1)     {         printf("The statement is true!!\n");     }     return 0; }</pre>

Example 2 (determine the grades)	Example 3 (determine which letter user has pressed)
<pre>#include&lt;stdio.h&gt;  int main(void) {     int num;      printf("Enter a number: ");     scanf("%d", &amp;num);     if(num &gt;= 90)     {         printf("Grade is A!");     }     else if(num &gt;= 80 &amp;&amp; num &lt; 90)     {         printf("Grade is B!");     }     else if(num &gt;= 70 &amp;&amp; num &lt; 80)</pre>	<pre>#include&lt;stdio.h&gt;  int main(void) {     char c;     printf("Enter a character:");     scanf("%c",&amp;c);      if(c=='a'    c=='A')     {         printf("You pressed A!!");     }else if(c=='B'    c=='b')     {         printf("You pressed B!!");     }else if(c=='c'    c=='C')         printf("You pressed C!!");     else</pre>

<pre> { printf("Grade is C!"); }else { printf("Fail!"); } return 0; } </pre>	<pre> printf("You pressed different key!\n"); return 0; } </pre>
--	--

### Switch statement:

Syntax of switch in C	Example 4
<pre> switch ( expression ) { case label1 : body1; break; case label2 : body2 break; case label3 : body3 break; default : default-body break; } next-statement; </pre>	<pre> #include&lt;stdio.h&gt;  int main(void) {     int n;     printf("Enter a number between (1-3):");     scanf("%d",&amp;n);      switch(n)     {     case 1:     printf("Pressed 1!\n");     break;     case 2:     printf("Pressed 2!\n");     break;     case 3:     printf("Pressed 3!\n");     break;     default :     printf("You did not press between (1-3)\n");     }      return 0; } </pre>

**Example 5** (two or more cases sharing one break statements)

```
#include<stdio.h>

int main(void)
{
    char c;
    printf("Enter a Grade letter:");
    scanf("%c",&c);

    switch(c)
    {
        case 'A':
        case 'a':
            printf("You got A! \n"); break;
        case 'B':
        case 'b':
            printf("You got B! \n"); break;
        case 'C':
        case 'c':
            printf("You got C! \n"); break;
        default:
            printf("Invalid Grade! \n");
    }
    return 0;
}
```

**Task:**

1. Write a program that determines whether a user input character is a vowel.