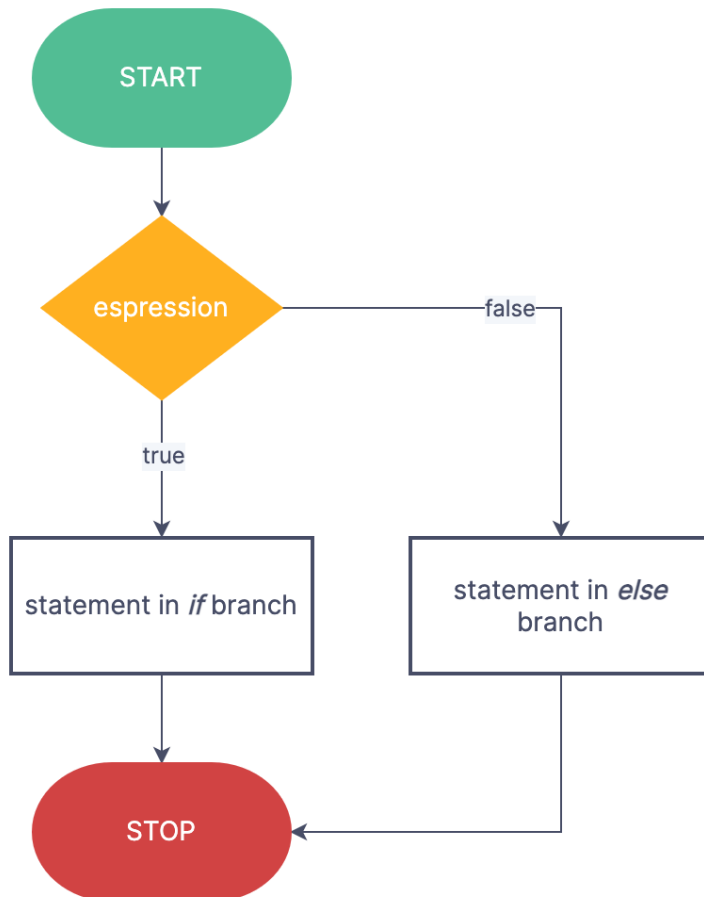


C++ worksheet



Code	Output
<pre>void main() {     int x = 15;     if (x &gt; 10)         cout &lt;&lt; "x larger than 10"; }</pre>	x larger than 10
<pre>void main() {     int x = 15;     if (x &gt; 10)         cout &lt;&lt; "x larger than 10";     else         cout &lt;&lt; "x less than 10"; }</pre>	x larger than 10

C++ worksheet

<pre>void main() {     int x ;     cin &gt;&gt; x;     if (x &gt; 10)         cout &lt;&lt; "x larger than 10";     else         cout &lt;&lt; "x less than 10"; }</pre> <p>Assume the user enter the value of x = 75</p>	<p>x larger than 10</p>
<pre>void main() {     int age;     cout &lt;&lt; "Enter your age : ";     cin &gt;&gt; age;     if (age &lt; 20)         cout &lt;&lt; "you are youth" &lt;&lt; endl;     else         cout &lt;&lt; "you are old" &lt;&lt; endl; }</pre> <p>Assume the user enter the age = 20</p>	<p>you are old</p>
<pre>void main() {     int age;     cout &lt;&lt; "Enter your age : ";     cin &gt;&gt; age;     if (age &lt;= 20)         cout &lt;&lt; "you are youth" &lt;&lt; endl;     else         cout &lt;&lt; "you are old" &lt;&lt; endl; }</pre> <p>Assume the user enter the age = 20</p>	<p>you are youth</p>
<pre>void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 50)         cout &lt;&lt; "Pass" &lt;&lt; endl;     else         cout &lt;&lt; "Failed" &lt;&lt; endl; }</pre> <p>assume the user enter the mark = 55</p>	<p>pass</p>
<pre>void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";</pre>	

C++ worksheet

<pre>cin &gt;&gt; mark; if (mark &gt;= 50)     cout &lt;&lt; "Pass" &lt;&lt; endl; else     cout &lt;&lt; "Failed" &lt;&lt; endl; cout &lt;&lt; "Bybye" &lt;&lt; endl; }</pre> <p>assume the user enter the mark = 30</p>	<p>falid bybye</p>
<pre>void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 50)         cout &lt;&lt; "Pass" &lt;&lt; endl;     else         cout &lt;&lt; "Failed" &lt;&lt; endl;     cout &lt;&lt; "Bybye" &lt;&lt; endl; }</pre> <p>assume the user enter the mark = 90</p>	<p>pass bybye</p>
<pre>void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 35 and mark &lt; 50)         cout &lt;&lt; "Failed" &lt;&lt; endl;     else if (mark &gt;= 50 &amp;&amp; mark &lt; 67)         cout &lt;&lt; "Pass" &lt;&lt; endl;     else if (mark &gt;= 67 &amp;&amp; mark &lt; 76)         cout &lt;&lt; "Good" &lt;&lt; endl;     else if (mark &gt;= 76 &amp;&amp; mark &lt; 84)         cout &lt;&lt; "Very Good" &lt;&lt; endl;     else if (mark &gt;= 84 &amp;&amp; mark &lt;= 100)         cout &lt;&lt; "Excellent" &lt;&lt; endl;     else         cout &lt;&lt; "Invalid Mark" &lt;&lt; endl; }</pre> <p>Assume the user enter the mark = 75</p>	<p>good</p>
<pre>void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 35 and mark &lt; 50)         cout &lt;&lt; "Failed" &lt;&lt; endl;     else if (mark &gt;= 50 &amp;&amp; mark &lt; 67)         cout &lt;&lt; "Pass" &lt;&lt; endl;</pre>	

C++ worksheet

<pre> else if (mark &gt;= 67 &amp;&amp; mark &lt; 76)     cout &lt;&lt; "Good" &lt;&lt; endl; else if (mark &gt;= 76 &amp;&amp; mark &lt; 84)     cout &lt;&lt; "Very Good" &lt;&lt; endl; else if (mark &gt;= 84 &amp;&amp; mark &lt;= 100)     cout &lt;&lt; "Excellent" &lt;&lt; endl; else     cout &lt;&lt; "Invalid Mark" &lt;&lt; endl; } </pre> <p>Assume the user enter the mark = 95</p>	<p>excellent</p>
<pre> void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 35 and mark &lt; 50)         cout &lt;&lt; "Failed" &lt;&lt; endl;     else if (mark &gt;= 50 &amp;&amp; mark &lt; 67)         cout &lt;&lt; "Pass" &lt;&lt; endl;     else if (mark &gt;= 67 &amp;&amp; mark &lt; 76)         cout &lt;&lt; "Good" &lt;&lt; endl;     else if (mark &gt;= 76 &amp;&amp; mark &lt; 84)         cout &lt;&lt; "Very Good" &lt;&lt; endl;     else if (mark &gt;= 84 &amp;&amp; mark &lt;= 100)         cout &lt;&lt; "Excellent" &lt;&lt; endl;     else         cout &lt;&lt; "Invalid Mark" &lt;&lt; endl; } </pre> <p>Assume the mark = 150</p>	<p>invalid mark</p>
<pre> void main() {     int mark;     cout &lt;&lt; "Enter your mark : ";     cin &gt;&gt; mark;     if (mark &gt;= 35 and mark &lt; 50)         cout &lt;&lt; "Failed" &lt;&lt; endl;     else if (mark &gt;= 50 &amp;&amp; mark &lt; 67)         cout &lt;&lt; "Pass" &lt;&lt; endl;     else if (mark &gt;= 67 &amp;&amp; mark &lt; 76)         cout &lt;&lt; "Good" &lt;&lt; endl;     else if (mark &gt;= 76 &amp;&amp; mark &lt; 84)         cout &lt;&lt; "Very Good" &lt;&lt; endl;     else if (mark &gt;= 84 &amp;&amp; mark &lt;= 100)         cout &lt;&lt; "Excellent" &lt;&lt; endl;     else         cout &lt;&lt; "Invalid Mark" &lt;&lt; endl; } </pre> <p>Assume the mark = 20</p>	<p>invalid mark</p>

C++ worksheet

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1. Write C++ code to convert temperature from Celsius to Fahrenheit.
2. Write C++ code to Swap Two Numbers without using temporary variable.
3. Take values of length and breadth of a rectangle from user and check if it is square or not.
4. Take two integers values from user and print greatest among them.
5. Write C++ code to find the number of years, weeks and days in the input days number
  - Example: 1329 day = 3 years, 33 weeks and 3 days.
  - Hint use %

C++ worksheet

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6. Write C++ to find if the input year is a leap year or not,
  - Example: 2016 is a leap year.
7. Write C++ code to ask the user to enter any letter then check if it's vowel letter or not.

The vowel letters is (a , e , i , o , u)

8. Write C++ program to ask the user to input the temperature if the temperature is less than 25 then print "cold" else print "Hot".
9. Write C++ program to ask the user to enter the three angles then check if it's formed a triangle or not.
10. Write a C++ program to check if the last digit of the number is odd or even.

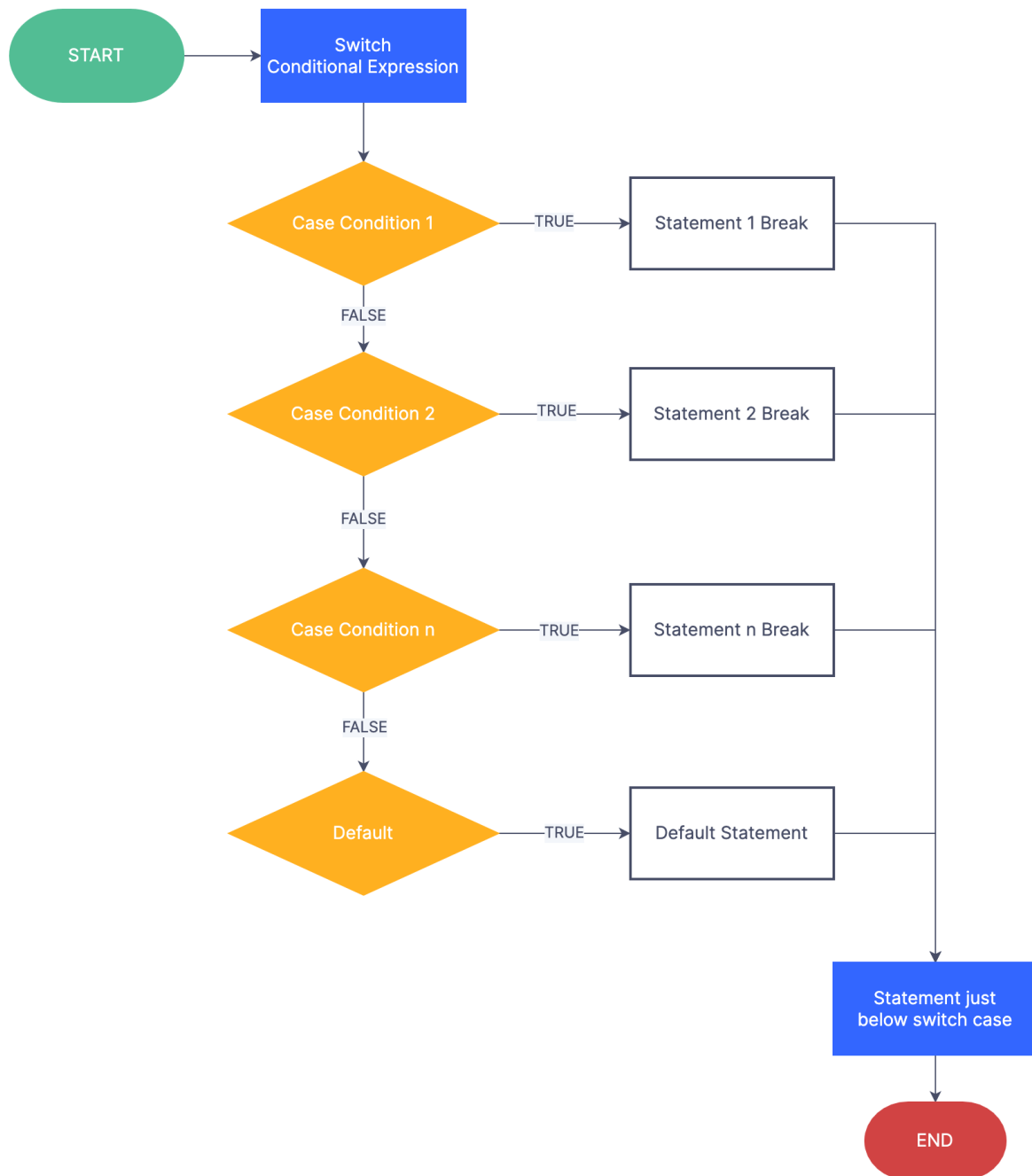


**Solutions Development Kit (SDK).**  
**IT Department**  
**Introduction to Programming**

**C++ worksheet**



## Switch Case Flowchart





C++ worksheet

11. Write C++ program to make a simple calculator with these operations (+, -, \*, /, %)

Ask the user to enter two numbers and the operator then print the result.

12. Write a c++ code to show a menu to the user , after user choose the item id print him the price.

Item	id	price
Apples	1	0.50 JD
Bananas	2	1.00 JD
Cherries	3	0.70 JD
Mangoes	4	2.00 JD
Papayas	5	2.00 JD