

Day 5

C Assignments: Control statements and loops

S.No	Assignment	Test Cases	
		Input	Output
1	Write a C Program to Find the Smallest Number among Three Numbers (integer values) using Nested if-else statement	90 -19 -28	-28 is the smallest number.
		40 30 60	30 is the smallest number.
		45 70 10	10 is the smallest number.
		60 120 190	60 is the smallest number.
2	Write a program to find the factorial of a given number using while loop 5! = 5*4*3*2*1 6! = 6*5*4*3*2*1 0! = 1 1! = 1 -5! = 1 -10! = 1	7	The Factorial of 7 is : 5040
		5	The Factorial of 5 is : 120
		10	The Factorial of 10 is : 3628800
		0	The Factorial of 0 is : 3628800
3	Write a C Program to find the Smallest Integer among Three integers using IF and Logical && operator.	90 -19 -28	-28 is the smallest number.
		40 30 60	30 is the smallest number.
		45 70 10	10 is the smallest number.
		60 120 190	60 is the smallest number.
4	Write a C program to find power of a number using while loops. The base number (>0) and exponent (>=0) is taken from the test cases.	6 0	The result is : 1
		4 8	The result is : 65536
5	Write a C program to calculate the Sum of First and the Last Digit of a given Number. For example if the number is 1234 the result is 1+4 = 5.	20000	Sum of First and Last digit = 2
		45632	Sum of First and Last digit = 6

6	<p>What is the purpose of the given program? n is the input number given by the user.</p> <pre>#include &lt;stdio.h&gt; int main() {     int n, x = 0, y;     printf("Enter an integer: ");     scanf("%d", &amp;n);     while (n != 0)     {         y = n % 10;         x = x * 10 + y;         n = n/10;     }     printf("Output is = %d", x);     return 0; }</pre>
7	<p>What is the output of the following C code?</p> <pre>#include &lt;stdio.h&gt; int main() {     int a = 1;     if (a--)         printf("True\n");     if (++a)         printf("False\n");     return 0; }</pre>
8	<p>What will be the output of the following code?</p> <pre>#include&lt;stdio.h&gt; int main() {     int p,t,si;     float r;     p=5000; t=4; r=7.5;     si=(p*t*r)/100;     printf("%f",si);     return 0; }</pre>
9	<p>In the following example, tell which statement is correct</p> <pre>if( (condition1==1) &amp;&amp; (condition2)==1))     printf("SUCCESS");</pre>

	<p>What the following program will print?</p> <pre>#include&lt;stdio.h&gt; int main() { int a=0101; printf("\n a=%d", a); return 0; }</pre>
10	<p>Choose the correct output of the following C code.</p> <pre>#include&lt;stdio.h&gt; int main() { int var1=10, var2=6; if(var1=5) { var2++; } printf("%d %d", var1, var2++); return 0; }</pre>
11	<p>What will be the output? (&amp;&amp; is logical AND operation)</p> <pre>#include &lt;stdio.h&gt; int main() { int i=0, j=1; printf("\n %d", i++ &amp;&amp; ++j); printf("\n %d %d", i, j); return 0; }</pre>