

Programming Fundamental

Home Task

Below the sample code are given you have to dry run these code and also understand their working. You have to show output of each code along with reason.

Name : AHSAN BASHIR

Reg no : 2021-CS-628

Part 1

Sample Code	Output
<pre>int x ; if (x == 3) cout<<"The if condition is fulfilled!\n"; cout<<"The if condition is not fulfilled!\n";</pre>	<p>When x = 3 The if condition is fulfilled! The if condition is not fulfilled!</p> <p>When x = 0 The if condition is not fulfilled!</p>
Sample Code	Output
<pre>int x ; if (x > 12) { if (x < 15) cout<<"BLUE"; } else cout<<"GREEN"; cout<<"JEANS";</pre>	<p>When x = 13 BLUEJEANS</p> <p>When x = 33 JEANS</p> <p>When x = 0 GREENJEANS</p>
Sample Code	Output
<pre>int m=5,n=10,q=20; if(q/n*m) cout<<"William Gates"; else cout<<" Warren Buffet"; cout<<" Carlos Slim Helu";</pre>	William Gates Carlos Slim Helu

Sample Code	Output
<pre>int x; if(x == 3) { cout<<"x = %d\n"<<x; cout<<"The if condition is fulfilled!\n"; } else { cout<<"x = %d\n"<<x; cout<<"The if condition is not fulfilled!\n"; }</pre>	<p>When x = -5 X=-5 The if condition is not fulfilled!</p> <p>When x = 3 x = 3 The if condition is fulfilled!</p>

Sample Code	Output
<pre>int number ; double alpha ; if (number > 0) if (alpha > 0) cout<<"Here I am!" ; else cout<<"No, I'm here!"; cout<<"No, actually, I'm here!";</pre>	<p>number= 5 , alpha=-5 No, I'm here! No, actually, I'm here!</p> <p>number= 5 , alpha=1 Here I am! No, actually, I'm here!</p> <p>number= -2 , alpha=-5 No, actually, I'm here!</p>

Sample Code	Output
<pre>void main() { int x; if (x < 1) cout<<"hello"; if (x == 5) cout<<"hi"; else cout<<"no"; }</pre>	<p>When x = 3 no</p> <p>When x = -2 hello no</p> <p>When x = 5 hi</p>

Sample Code	Output
<pre>int numb1, numb2; if(numb1==numb2) cout<<"Result: "<< numb1<<" = " <<numb2; else if(numb1>numb2) cout<<"Result: "<< numb1<<" > " <<numb2; else cout<<"Result: "<< numb1<<" < " <<numb2;</pre>	<p>number1=5 , number2=3 Result: 5 > 3</p> <p>number1=2 , number2=3 Result: 2 < 3</p> <p>number1=5 , number2=5 Result: 5 = 5</p>

Sample Code	Output
<pre>int k; if(k < 90) if(k < 80) if(k < 70) if(k < 60) cout<<"Grade F.\n"; else cout<<"Grade D.\n"; else cout<<"Grade C.\n"; else cout<<"Grade B.\n"; else cout<<"Grade A.\n";</pre>	<p>When k = 20 Grade F.</p> <p>When k = 75 Grade C.</p> <p>When k = 85 Grade B.</p>

Sample Code	Output
<pre>int k; if(k > 69) { if(k > 89)</pre>	<p>When K = 63 Grade D.</p> <p>When K = 90</p>

	F's = 0
--	----------------

Sample Code	Output
<pre>int year, train; char curr_post; if(year >= 10) if(train >= 5) if(curr_post == 'A' 'a') cout<<"Qualified For Manager!\n"; else { cout<<"Become Assistant Manager first.\n"; cout<<"Need more training.\n"; cout<<"Need more experience.\n"; } else { cout<<"Need more training.\n"; cout<<"Need more experience.\n"; } else cout<<"Need more experience.\n";</pre>	<p>year = 13, train=5 ,curr_post='B' Qualified For Manager!</p> <p>year = 10, train=2 ,curr_post='a'</p> <p>Need more training. Need more experience.</p> <p>year = 5, train=12 ,curr_post='a' Need more experience.</p>

Sample Code	Output
<pre>int degreesOutside ; int numberOfClouds; if (degreesOutside > 70 && numberOfClouds < 5) { cout<<"Wear sun screen!"; }</pre>	<p>degreesOutside= 80, numberOfClouds=10</p> <p>degreesOutside= 80, numberOfClouds= -1 Wear sun screen!</p>

Sample Code	Output
	<p>When myAge= 95</p> <p>You're not quite in your peak.</p>

```
int myAge ;  
if ((myAge >= 0 &&myAge < 3) || myAge > 90&&myAge<=100)  
cout<<"You\'re not quite in your peak.";
```

When myAge= 0
You\'re not quite in your peak.

When myAge= 55