

INFORMATICS PRACTICES
CH 5 Flow of Control

Name: _____

Class: XI Sec: ____

Predict the output	
<p>1. for x in [1,2,3]: for y in [4,5,6]: print(x,y)</p> <p>1 4 1 5 1 6 2 4 2 5 2 6 3 4 3 5 3 6</p>	<p>3 for x in range(3): for y in range(4): print(x,y,x+y)</p> <p>0 0 0 0 1 1 0 2 2 0 3 3 1 0 1 1 1 2 1 2 3 1 3 4 2 0 2 2 1 3 2 2 4 2 3 5</p>
<p>2. c=0 for x in range(10): for y in range(5): c+=1 print(c)</p> <p>50</p>	<p>4 Predict the output . Also check how many times is the condition of the if clause evaluated?</p> <p>for i in range(4): for j in range(5): if i+1==j or j+i==4: print("+",end=' ') else: print("0",end=' ') print()</p> <p>0 + 0 0 + 0 0 + + 0 0 0 + + 0 0 + 0 0 +</p>

Rewrite the following code fragments using for loop.

<p>1</p>	<pre>n=10 while(n>0) print(n) n=n-1</pre> <p><u>using for loop</u> for I in (10,0,-1): print(i)</p>	<pre>n=int(input("Enter N: ")) i=1 sum=0 while i<n : if i%2==0 : sum=sum+i i=i+1 print(sum)</pre> <p><u>using for loop</u> n=int(input("Enter N: ")) sum=0 for i in range(1,n): if i%2==0 : sum=sum+i print(sum)</p>
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Rewrite the following code fragments using while loop.

<pre>for p in range(1,10) : print (p)</pre> <p><u>using while loop</u> i=1 while(i<10): print(n) i=i+1</p>	<pre>for i in range(1, 16) : if i % 3 == 0 : print (i)</pre> <p><u>using while loop</u> i = 1 while i < 16: if i % 3 == 0 : print (i) i += 1</p>
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Find the errors in the code given below and . Rewrite the correct code

<pre>for i in range(1,100): grade==float(input("Enter grade percentage")) if grade>90: print("That's an A+ !") if 80 > grade >90: print(" "" An A is really good!""") elif 60>grade : print("You got an A-!") else grade<60 : print("Sorry,you need an A- to qualify!") Correct code for i in range(1,100): grade=float(input("Enter grade percentage")) if grade>90: print("That's an A+ !") elif grade>80 or grade<90: print(" "" An A is really good!""")</pre>	<p>Following code contains an endless loop. Could you find out why ? Suggest a solution.</p> <pre>n=10 answer=1 while(n>0): answer=answer+n**2 n=n+1 print(answer)</pre> <p>solution Decrement the value of n. n=n+1 must be replaced by n=n-1</p>
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	<pre>elif 60>grade : print("You got an A-!") else: print("Sorry,you need an A- to qualify!")</pre>		
	<pre>weather="raining" if weather='sunny': print("wear sunblock") elif weather='snow': print("going skiing") else: print(weather) correct code weather=="raining" if weather=="sunny": print("wear sunblock") elif weather=="snow": print("going skiing") else: print(weather)</pre>		<pre>if n==0 print("Zero") elif:n==1 print("One") elif n==2: print("two") else n==3: print("Three")</pre>