



INDIAN SCHOOL AL WADI AL KABIR

Class: 11th (CS)	Department: Computer Science	Date of submission:
Worksheet No: 6	Topic: Loop Constructs	Note: (Section B) To be written in the record book

Section A

1	Following code contains an endless loop. Could you find out why? Suggest a solution. <pre>x=30 res=0 while(x > 10) : res=res+x x=x+5 print("Result = ", res)</pre>
2	Rewrite the following code fragment using for loop: <pre>num=20 while(num > 0): count += 1 sum += num num -= 2 if(count == 10): print(sum//count) break</pre>
3	What will be the output when the input value is (i) 10 (ii) 0 <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>
4	Rewrite the following code fragment using for loop: <pre>I=100 J=20 while (I > 50): J= J + I</pre>

	<pre> I = I - 15 print("Final Value of I and J = ", I, J) </pre>
5	Rewrite the following code fragments using while loop. i) for J in range(101,125): if J % 7 == 0 : print(J) ii) for x in range(-300, 300, 100): print(x, end=" ") iii) for A in [15, 30, 50, 100]: print(A," % ") iv) for K in range(10): print(K, end="@") print(K*2, end="\n")
Section B	
1.	Write a menu driven program to: 1. Input a number and find its factorial. 2. Input a number and find its factors.
2.	Write a menu driven program to: 1. Print the following pattern <pre> 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 </pre> 2. To find the sum of the series. $S = x^2/4 + x^4/6 + x^6/8 + x^n/(n+2)$ where x and n are inputted by the user.