1. What is the value of x

x = 0

while (x < 100):

x+=2

print(x)

1. 101
2. 99
3. None of the above, this is an infinite loop
4. 100
5. Using while loop accept numbers until the sum of number is less than 100.
6. Take 10 integers from keyboard using loop and print their average value on the screen.
7. Print the following patterns using loop :  
   a.  
   \*  
   \*\*  
   \*\*\*  
   \*\*\*\*  
   b.  
      \*    
    \*\*\*   
   \*\*\*\*\*  
    \*\*\*   
      \*    
   c.  
   1010101  
    10101   
     101    
      1
8. Print multiplication table of given number

For example num = 2 so the output should be

2

4

6

8

10

12

14

16

18

20

1. Given a list iterate it and display numbers which are divisible by 5 and if you find number greater than 150 stop the loop iteration

list1 = [12, 15, 32, 42, 55, 75, 122, 132, 150, 180, 200]

****Expected output:****

15

55

75

150

7)Given a number count the total number of digits in a number

For example, the number is ****75869****, so the output should be ****5****.

8)Display -10 to -1 using for loop

****Expected output:****

-10

-9

-8

-7

-6

-5

-4

-3

-2

-1

9)Display a message “Done” after successful execution of for loop

For example, the following loop will execute without any error.

for i in range(5):

print(i)

****Expected output should be:****

0

1

2

3

4

Done!

1. Print the following pattern using nested for loop

Expected output

5 4 3 2 1

4 3 2 1

3 2 1

2 1

1