



Activity 12



Ahmed is reviewing repetition constructs. Demonstrate how programs using conditional loops can repeat a different number of times.

1. First, create a program below that uses a conditional loop:

```
1. sum = 0
2. while sum < 10:
3.     num = input ("Enter a number:")
4.     num = int (num)
5.     sum = sum + num
6. print ("Sum is: ", sum)
```

2. Execute the program and enter 1 each time you are asked to enter a number. Then, answer the questions. Write your answers below.

- Ⓐ How many times are you asked to enter a number?
- Ⓑ How many times is the while loop executed?
- Ⓒ Why did it stop?

3. Execute the program again and enter 5 each time you are asked to enter a number. Then, answer the questions. Write your answers below.

- Ⓐ How many times are you asked to enter a number?
- Ⓑ How many times is the while loop executed?
- Ⓒ Why did it stop?

4. Execute the program again and enter 23 each time you are asked to enter a number. Then, answer the questions. Write your answers below.

- Ⓐ How many times are you asked to enter a number?
- Ⓑ How many times is the while loop executed?
- Ⓒ Why did it stop?