Assignment_3(Loop)

For Loop

1) Write a program that prints the numbers from 1 to 10.
2) Write a program that calculates the sum of all the numbers from 1 to 100.
3) Write a program that prints the even numbers from 1 to 20.
4) Write a program that calculates the factorial of a given number using a for loop.
5) Write a program that prints the multiplication table of a given number.
6) Write a program that finds the maximum number in a given list using a for loop.
7) Write a program that calculates the average of a given list of numbers.
8) Write a program that finds the minimum number in a given list using a for loop.
9) Write a program that prints the Fibonacci series up to a given number.
10) Write a program that prints the prime numbers up to a given number.
11) Write a program that prints the odd numbers from 1 to 30.
12) Write a program that prints the reverse of a given string using a for loop.
13) Write a program that prints the first 10 numbers in the geometric sequence 2, 4, 8, 16, ...
14) Write a program that prints the first 10 numbers in the arithmetic sequence 1, 3, 5, 7, ...
15) Write a program that prints the numbers from 1 to 100, but for multiples of 3 print "Fizz" instead of the number and for multiples of 5 print "Buzz". For numbers that are multiples of both 3 and 5, print "FizzBuzz".
16) Write a program that takes a list of numbers and removes any duplicates.
17) Write a program that calculates the sum of the squares of the numbers from 1 to 50.
18) Write a program that counts the number of vowels in a given string using a for loop.
19) Write a program that finds the second largest number in a given list.
20) Write a program that prints all the ASCII characters.
21) Write a program that checks if a given number is a palindrome using a for loop.
22) Write a program that prints the square root of all the numbers from 1 to 25.
23) Write a program that prints the powers of 2 up to a given number.
24) Write a program that prints the first 10 numbers in the sequence 1, 1, 2, 3, 5, 8, 13, ... (the Fibonacci sequence).
25) Write a program that calculates the sum of the first 20 numbers in the sequence 1, 1/2, 1/4, 1/8, ...
26) Write a program that prints the ASCII values of all the characters in a given string.
27) Write a program that checks if a given string is a palindrome using a for loop.
28) Write a program that prints the sum of all the odd numbers from 1 to 50.
29) Write a program that prints the sum of all the even numbers from 1 to 50.
30) Write a program that takes a list of numbers and prints the square of each number in the list.

While Loop

31) Write a program that prints the numbers from 1 to 10 using a while loop.
32) Write a program that calculates the sum of all the numbers from 1 to 100 using a while loop.
33) Write a program that prints the even numbers from 1 to 20 using a while loop.
34) Write a program that calculates the factorial of a given number using a while loop.
35) Write a program that prints the multiplication table of a given number using a while loop.
36) Write a program that finds the maximum number in a given list using a while loop.
37) Write a program that calculates the average of a given list of numbers using a while loop.
38) Write a program that finds the minimum number in a given list using a while loop.
39) Write a program that prints the Fibonacci series up to a given number using a while loop.
40) Write a program that prints the prime numbers up to a given number using a while loop.
41) Write a program that prints the odd numbers from 1 to 30 using a while loop.
42) Write a program that prints the reverse of a given string using a while loop.
43) Write a program that prints the first 10 numbers in the geometric sequence 2, 4, 8, 16, ... using a while loop.
44) Write a program that prints the first 10 numbers in the arithmetic sequence 1, 3, 5, 7, ... using a while loop.
45) Write a program that prints the numbers from 1 to 100, but for multiples of 3 print "Fizz" instead of the number and for multiples of 5 print "Buzz". For numbers that are multiples of both 3 and 5, print "FizzBuzz" using a while loop.
46) Write a program that takes a list of numbers and removes any duplicates using a while loop.
47) Write a program that calculates the sum of the squares of the numbers from 1 to 50 using a while loop.
48) Write a program that counts the number of vowels in a given string using a while loop.
49) Write a program that finds the second largest number in a given list using a while loop.
50) Write a program that prints all the ASCII characters using a while loop.
51) Write a program that checks if a given number is a palindrome using a while loop.
52) Write a program that prints the square root of all the numbers from 1 to 25 using a while loop.
53) Write a program that prints the powers of 2 up to a given number using a while loop.
54) Write a program that prints the first 10 numbers in the sequence 1, 1, 2, 3, 5, 8, 13, ... (the Fibonacci sequence) using a while loop.
55) Write a program that calculates the sum of the first 20 numbers in the sequence 1, 1/2, 1/4, 1/8, ... using a while loop.

56) Write a program that prints the ASCII values of all the characters in a given string using a while loop.
57) Write a program that checks if a given string is a palindrome using a while loop.
58) Write a program that prints the sum of all the odd numbers from 1 to 50 using a while loop.
59) Write a program that prints the sum of all the even numbers from 1 to 50 using a while loop.
60) Write a program that takes a list of numbers and prints the square of each number in the list using a while loop.