

LOOPS

Exercise 1

Write a program that asks the user for 20 numbers. Once all the numbers have been entered, the sum of all the numbers should be displayed.

Exercise 2

The 1p Saving Challenge is a year-long challenge you can start on the 1st of January 2020. It involves saving a little money every day, starting with 1p. The next day you save 2p, the day after 3p. Write a program that tells the user how much money they end up with at the end of the year.

Exercise 3

Write a program that displays all the numbers multiple of 3 up to 300 using range with 3 parameters.

Exercise 4

Below you have the algorithm of a program that asks the user for a set of positive numbers and identifies the highest among them. The user enters the number 0 to finish the sequence. You have to implement this algorithm and test it.

```
Set number with number entered by user
Set highest with number
while number is not 0
    if number is greater than highest
        Set highest with number

    Set number with number entered by user

print highest
```

Exercise 5

A weather centre records the average temperature every day for seven days. Write a program that allows the user to input the temperature each day for seven days and when the loop is finished, displays the average temperature for the week.

Exercise 6

Running on a treadmill at a constant speed burns 9.7 calories per minute. Write a program that uses a loop to display the number of calories burned after 10, 15, 20, 25 and 30 minutes.