

# Python 11 Worksheet: Using for loops

Student Resource



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## Activity 1: Using `for` loops

a) Write a Python program that uses a `for` loop to output:

0  
1  
2  
3

b) Write a Python program that uses a `for` loop to output:

5  
10  
15  
20

c) Write a Python program that uses a `for` loop to output:

100  
90  
80  
70  
60

## Activity 2: Using `for` loops with strings

Write a Python program that asks you to enter your name and:

- a) Use a `for` loop to output each letter in your name
  
  
  
  
  
  
  
  
  
  
- b) Use a `for` loop to output every second letter in your name. E.g. if you enter "Elizabeth", your program should output

E  
i  
a  
e  
h

- c) Use a `for` loop to output your name backwards.

## Activity 3: Using `for` loops with lists

Predict what this code will output without running it

```
1 fruits = ["apple", "orange", "pear", "cherry"]
2 for a_fruit in fruits:
3     print(a_fruit)
```

Then do these exercises:

Write a program that asks the user to enter their favourite five films and store them in a list. Then add code to:

a) Use a `for` loop to output each film in the list

b) Use a `for` loop to output every second film in the list.

c) Use a `for` loop to output the list of films backwards.

## Activity 3: Selection in a for loop

a) Write a Python program that asks you to enter your name and:

a) add code that uses a `for` loop to output the number of times the letters a, b, c or d appear in your name.

b) Finish this code to output if a given fruit was found in the list or not.

```
fruits = ["apple", "orange", "pear", "cherry"]
to_find = input("What fruit are you looking for? ")
found = False
for a_fruit in fruits:
```