Question

A programmer has been asked to write a countdown program which simply displays the numbers 10 down to 1, pausing 1 second in between each output, finishing with the message "Blast off!".

Write an algorithm in pseudocode using a loop, which will perform the logic above.

Answer

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There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:
-Create a variable and initialise it with the integer 10
-Start a loop which will iterate 10 times
-Inside the loop the:
-Output the number variable
-Decrement number by 1
-Sleep for 1 second
-Display final message

EXAMPLE ALGORITHMS:

WHILE Loop Example:
```
number = 10
while number != 0
    print(number)
    number = number - 1
    sleep(1)
endwhile
print("Blast off!")
```

FOR Loop Example:
```
number = 10
for counter = 0 to 10
    print(number)
    number = number - 1
    sleep(1)
next counter
print("Blast off!")
```

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