ANSWERS

Counting With Variables Practice.docx - What happens in each case? Determine the output of each of the following.

```
when [flag] clicked
script variables (x) ▶
set [x ▾] to [3]
set [x ▾] to ((x) + (1))
say (x) for (0.5) secs
```

1)___4_____

```
when [flag] clicked
script variables (x) ▶
set [x ▾] to [3]
change [x ▾] by (1)
say (x) for (0.5) secs
```

2)___4_____

```
when [flag] clicked
script variables (x) ▶
set [x ▾] to [3]
change [x ▾] by ((x) + (1))
say (x) for (0.5) secs
```

3)___7_____

```
when [flag] clicked
script variables (number) (count to) ◀▶
set [count to ▾] to [3]
set [number ▾] to [1]
repeat (count to)
    say (number) for (0.5) secs
    set [number ▾] to ((number) + (1))
```

4)___1 2 3_____

```
when [flag] clicked
script variables (number) (count to) ◄►
set [count to ▾] to [3]
set [number ▾] to [1]
repeat (count to)
  set [number ▾] to ((number) + (1))
  say (number) for (0.5) secs
```

5) **2 3 4**

```
when [flag] clicked
script variables (x) ►
set [x ▾] to [1]
repeat until ((x) = [4])
  say (x) for (0.5) secs
  change [x ▾] by (1)
```

6) **1 2 3**

```
when [flag] clicked
script variables (x) ►
set [x ▾] to [1]
repeat until ((x) > [4])
  say (x) for (0.5) secs
  change [x ▾] by (1)
```

7) **1 2 3 4**

```
when [flag] clicked
script variables (x) ►
set [x ▾] to [3]
repeat until ((x) < [1])
  change [x ▾] by (-1)
  say (x) for (0.5) secs
```

8) **2 1 0**

9)

```
when [flag] clicked
script variables (start) (end) (count) ◄►
set start ▾ to [1]
set end ▾ to [5]
set count ▾ to (start)
repeat until <(count) > (end)>
  say (count) for (0.5) secs
  set count ▾ to ((count) + (1))
repeat until <(count) < (start)>
  say (count) for (0.5) secs
  set count ▾ to ((count) − (1))
```

9) 1 2 3 4 5 6 5 4 3 2 1

10)

```
when [flag] clicked
script variables (x) ►
set x ▾ to [5]
repeat until <(x) = [1]>
  say (x) for (0.5) secs
  change x ▾ by (-1)
```

10) 5 4 3 2

11)

```
when [flag] clicked
script variables (num) ►
set num ▾ to [0]
repeat until <(num) > [10]>
  change num ▾ by (2)
  say (num) for (0.5) secs
```

11) 2 4 6 8 10 12

12)

```
when [flag] clicked
script variables (name) ►
set name ▾ to [HAAS]
set name ▾ to (join [hello ] (name) ◄►)
say (name) for (0.5) secs
set name ▾ to (join [hello ] (name) ◄►)
say (name) for (0.5) secs
```

12) hello HAAS
hello hello HAAS