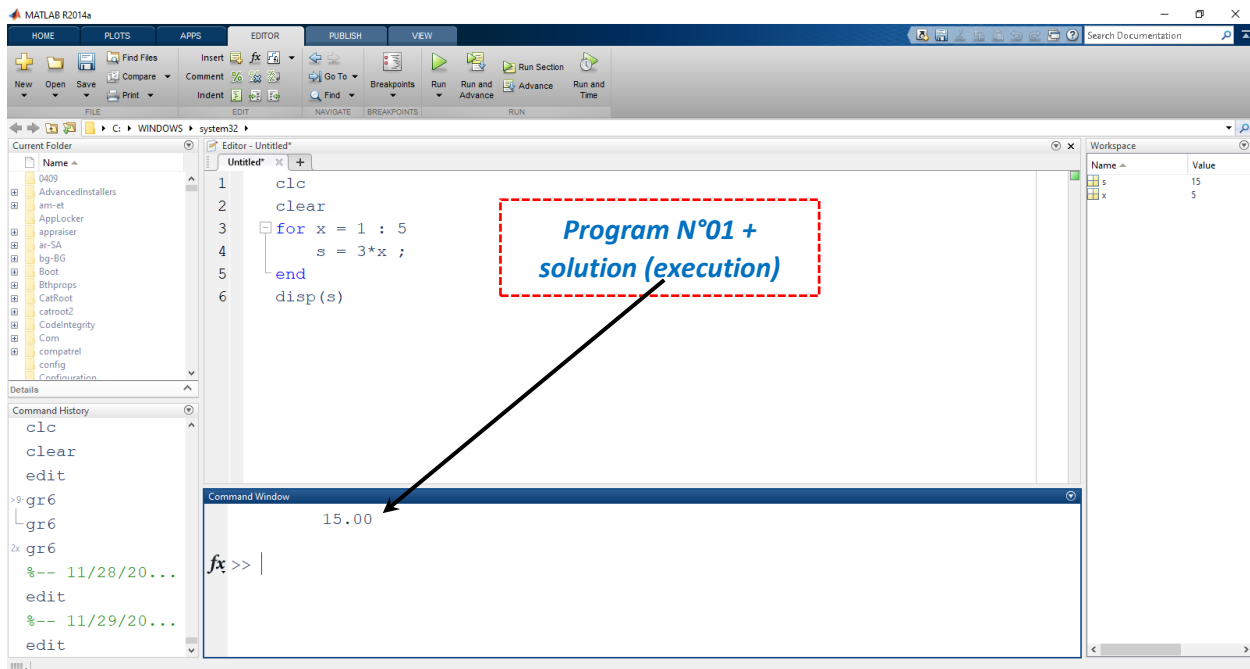




Application

What will be the result of the following programs whose written by MATLAB is executed?



```
1 clc
2 clear
3 for x = 1 : 5
4     s = 3*x ;
5 end
6 disp(s)
```

Program N°01 + solution (execution)

Command Window: 15.00

Name	Value
s	15
x	5



Program N°02 + solution (execution)

```
1 clc
2 clear
3 for x = 8 : -2 : 4
4     s = 3*x ;
5     disp([x s])
6 end
```

Command Window:

```
8.00 24.00
6.00 18.00
4.00 12.00
```

Workspace:

Name	Value
s	12
x	4

Program N°03 + solution (execution)

```
1 clc
2 clear
3 for x = 8 : -2 : 4
4     s = 3*x ;
5 end
6 disp([s x])
```

Command Window:

```
12.00 4.00
```

Workspace:

Name	Value
s	12
x	4



Program N°04 + solution (execution)

```

1  clc
2  clear
3  y = 1 ;
4  while (y<10)
5      disp(y)
6      f = sqrt(y);
7      y=y+1;
8  end
    
```

Name	Value
f	3
y	10

Program N°05 + solution (execution)

```

1  clc
2  clear
3  y = 1 ;
4  while (y<10)
5      f = sqrt(y);
6      y=y+1;
7  end
8  disp(f)
    
```

Name	Value
f	3
y	10



The screenshot displays the MATLAB R2014a environment. The Editor window shows a script with the following code:

```
1  clc
2  clear
3  y = 1 ;
4  while (y<10)
5      f = sqrt(y);
6      y=y+1;
7  end
8  disp([y f])
```

A red dashed box highlights the code, with a callout text: **Program N°06 + solution (execution)**. The Command Window shows the execution output:

```
edit
>gr6      10.00      3.00
└gr6
2x gr6
%-- 11/28/20...
edit
%-- 11/29/20...
edit
clc
clear
```

The Workspace window shows the following variables:

Name	Value
f	3
y	10