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Application

1.Using *while-end* loop, create or write a program in script/editor that allow to calculate $z = \sqrt[3]{r}$, where r varied from 1 to 100.

2.What will be the result of the following program whose written by MATLAB

```
clc
clear
a = [1 8 -4 6];
b = [3 -5 3 1];
x = 1 ;
st = 1 ;
while x<=length(a)
    ad = x(a) + x(b);
    x = x + st;
    disp(ad)
end
```

```
clc
clear
r = 1;
x = 1;
n = 4;
st = 1;
while r<=n
    x=x*r
    r=r+st;
end
```

4. Using *while-end* loop, create or write a program in script/editor that allow to calculate the sum of three vectors already given by MATLAB

$a = \{4 \quad 5-3 \quad 2 \quad 8\}$

$b = \{2 \quad 1 \quad 0 \quad 3 \quad 7\}$

$c = \{11 \quad 8 \quad 5 \quad 2 \quad -8\}$