

julia-first-ex

November 7, 2021

1 Hi julia welcome

```
[7]: name="mk"
```

```
[7]: "mk"
```

```
[8]: println("Hi Wecome")
```

```
Hi Wecome
```

```
[9]: println("Hi $name, welcome")
```

```
Hi mk, welcome
```

```
[10]: age = round(rand()*100)
```

```
[10]: 65.0
```

```
[11]: println("Hi $name, welcome. We guess you age as $age")
```

```
Hi mk, welcome. We guess you age as 65.0
```

```
[12]: arrayo = ["mk", "ms", "mya", "msb"]
```

```
[12]: 4-element Vector{String}:
```

```
 "mk"
```

```
 "ms"
```

```
 "mya"
```

```
 "msb"
```

```
[13]: arrayo[1]
```

```
[13]: "mk"
```

```
[14]: rand(3, 2, 2)
```

```
[14]: 3×2×2 Array{Float64, 3}:
```

```
[:, :, 1] =
```

```
 0.0965377  0.799937
```

```
 0.114655  0.000451226
```

```
0.374069 0.453103
```

```
[:, :, 2] =  
0.648417 0.261531  
0.338457 0.290224  
0.0506485 0.312058
```

```
[16]: i=1  
while i <= length(arrayo)  
    person = arrayo[i]  
    age = round(rand()*100)  
    println("Hi $person we guess your age as $age")  
    i+=1  
end
```

```
Hi mk we guess your age as 6.0  
Hi ms we guess your age as 33.0  
Hi mya we guess your age as 32.0  
Hi msb we guess your age as 89.0
```

```
[18]: for p in arrayo  
    println(p)  
end
```

```
mk  
ms  
mya  
msb
```

```
[28]: m, n = 4, 4  
A = zeros(m, n)  
for i in 1:m  
    for j in 1:n  
        A[i, j] = i+j  
    end  
end  
A
```

```
[28]: 4×4 Matrix{Float64}:  
 2.0  3.0  4.0  5.0  
 3.0  4.0  5.0  6.0  
 4.0  5.0  6.0  7.0  
 5.0  6.0  7.0  8.0
```

```
[29]: C = [i+j for i in 1:m, j in 1:n]  
C
```

[29]: 4×4 Matrix{Int64}:

```
 2  3  4  5
 3  4  5  6
 4  5  6  7
 5  6  7  8
```

```
[43]: x = true
      y = false
      println((x, y))
      (x | y) ? println(x) : println(y)
```

```
(true, false)
true
```

```
[44]: function f(x)
      x^2
      end
```

[44]: f (generic function with 1 method)

```
[45]: f(2)
```

[45]: 4

```
[47]: f1 = x -> x^3
      f1(2)
```

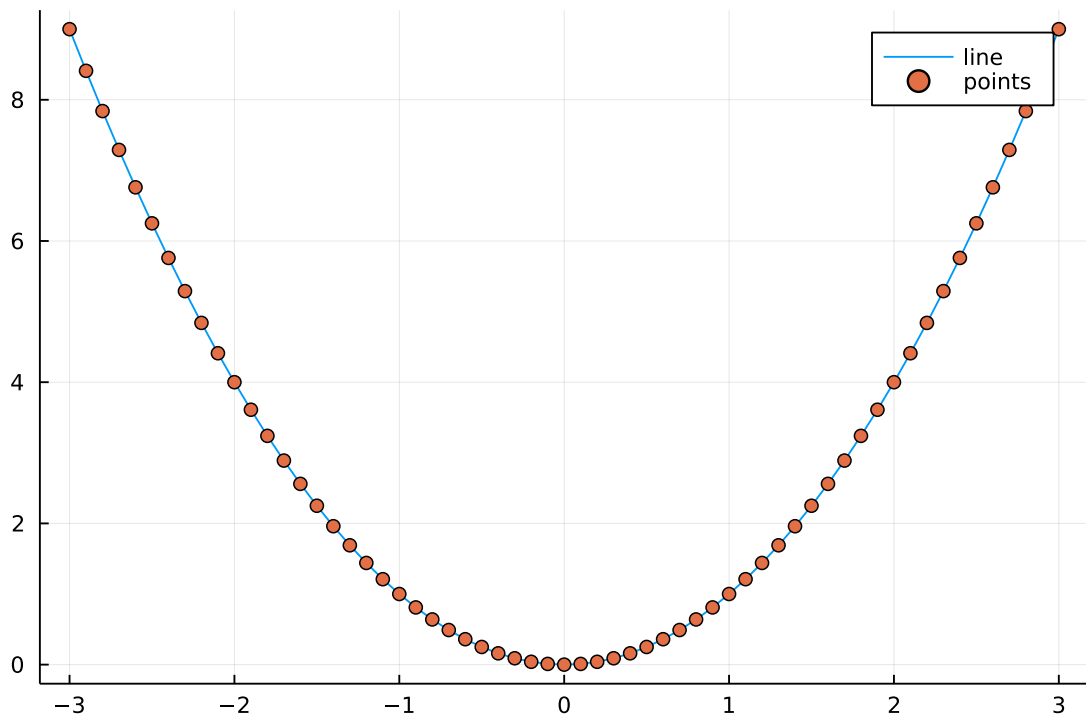
[47]: 8

```
[48]: f3 = name -> println("Hi $name. How are you?")
      f3("mk")
```

Hi mk. How are you?

```
[51]: x = -3:0.1:3
      f(x)=x^2
      y = f.(x)
      using Plots
      gr()
      plot(x, y, label="line")
      scatter!(x, y, label="points")
```

[51]:



[]: