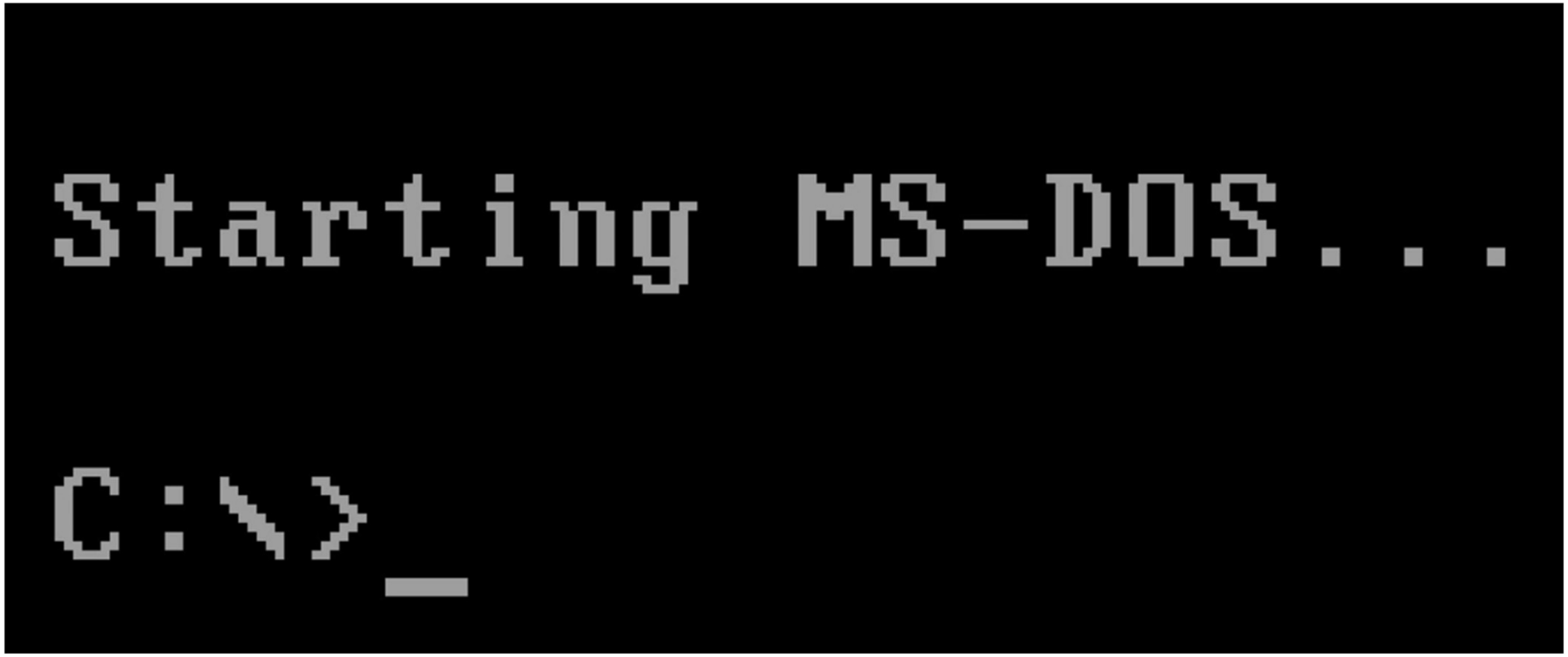
Programming for AI

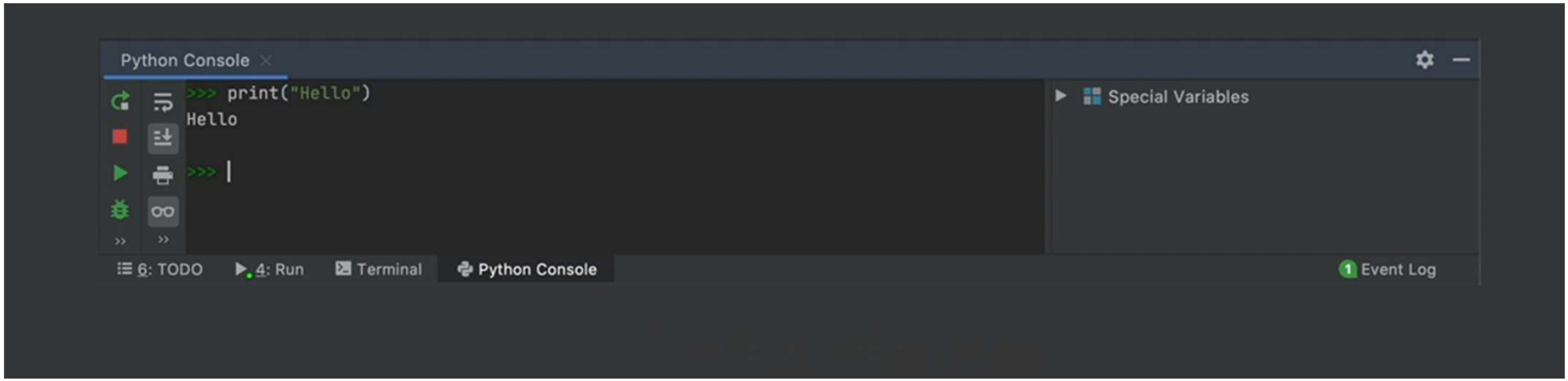
Abdul Haseeb

BS(AI)-IV

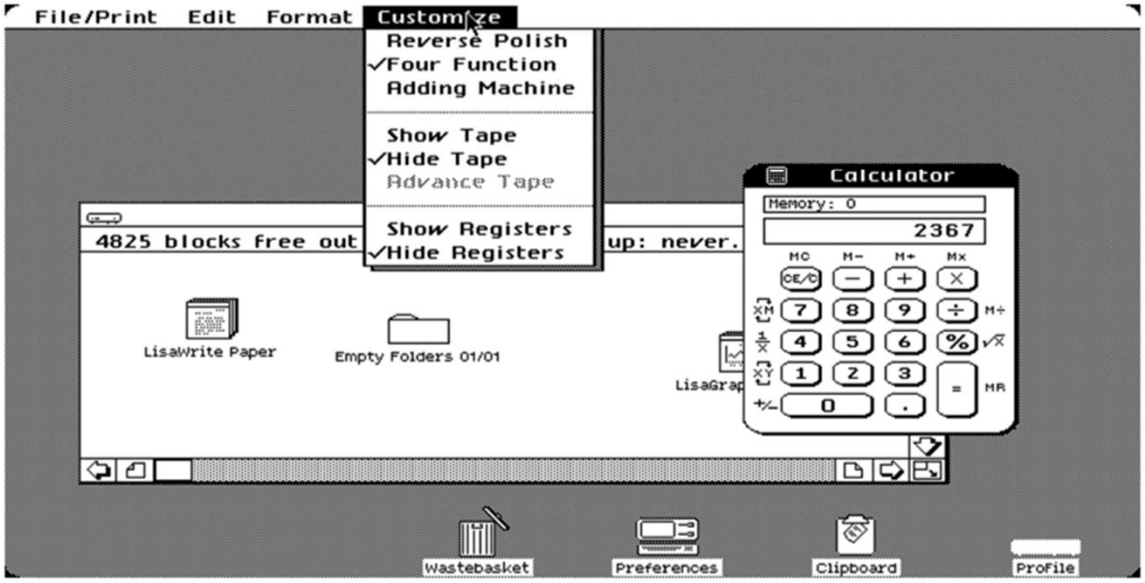
Interactions in past



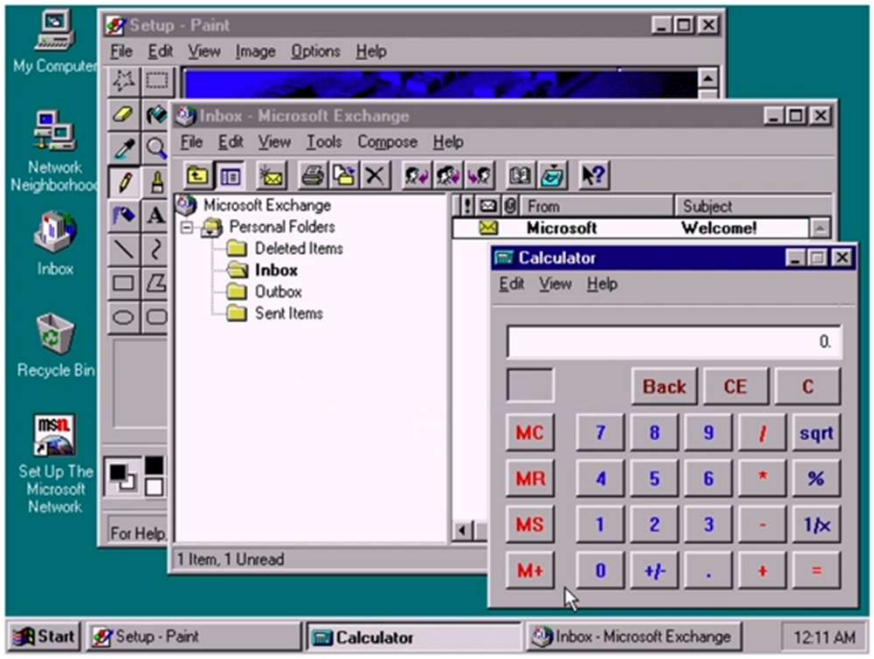
Similar to Python console



Mac Lisa


File/Print
Edit
Format
Customize
Reverse Polish
✓Four Function
Adding Machine
Show Tape
✓Hide Tape
Advance Tape
Show Registers
✓Hide Registers
4825 blocks free out
up: never.
Calculator
Memory: 0
2367
LisaWrite Paper
Empty Folders 01/01
Wastebasket
Preferences
Clipboard
ProFile

Windows 95

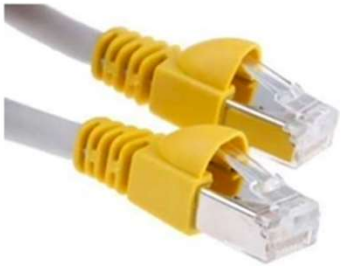

My Computer
Network Neighborhood
Inbox
Recycle Bin
Set Up The Microsoft Network
Setup - Paint
File Edit View Image Options Help
For Help
Inbox - Microsoft Exchange
File Edit View Tools Compose Help
Microsoft Exchange
Personal Folders
Deleted Items
Inbox
Outbox
Sent Items
From
Subject
Microsoft
Welcome!
1 Item, 1 Unread
Calculator
Edit View Help
0.
Back CE C
MC 7 8 9 / sqrt
MR 4 5 6 * %
MS 1 2 3 - 1/x
M+ 0 +/- . + =
Start
Setup - Paint
Calculator
Inbox - Microsoft Exchange
12:11 AM

The main "copying" that went on relative to Steve and me is that we both benefited from the work that Xerox Parc did in creating graphical interface - it wasn't just them but they did the best work. Steve hired Bob Belville, I hired Charles Simonyi. We didn't violate any IP rights Xerox had but their work showed the way that led to the Mac and Windows.

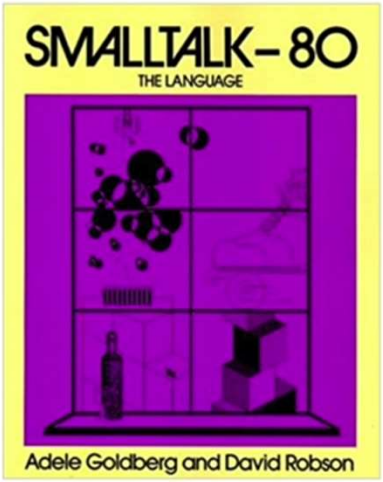
The First Ones Actually

Xerox PARC

Also Created..

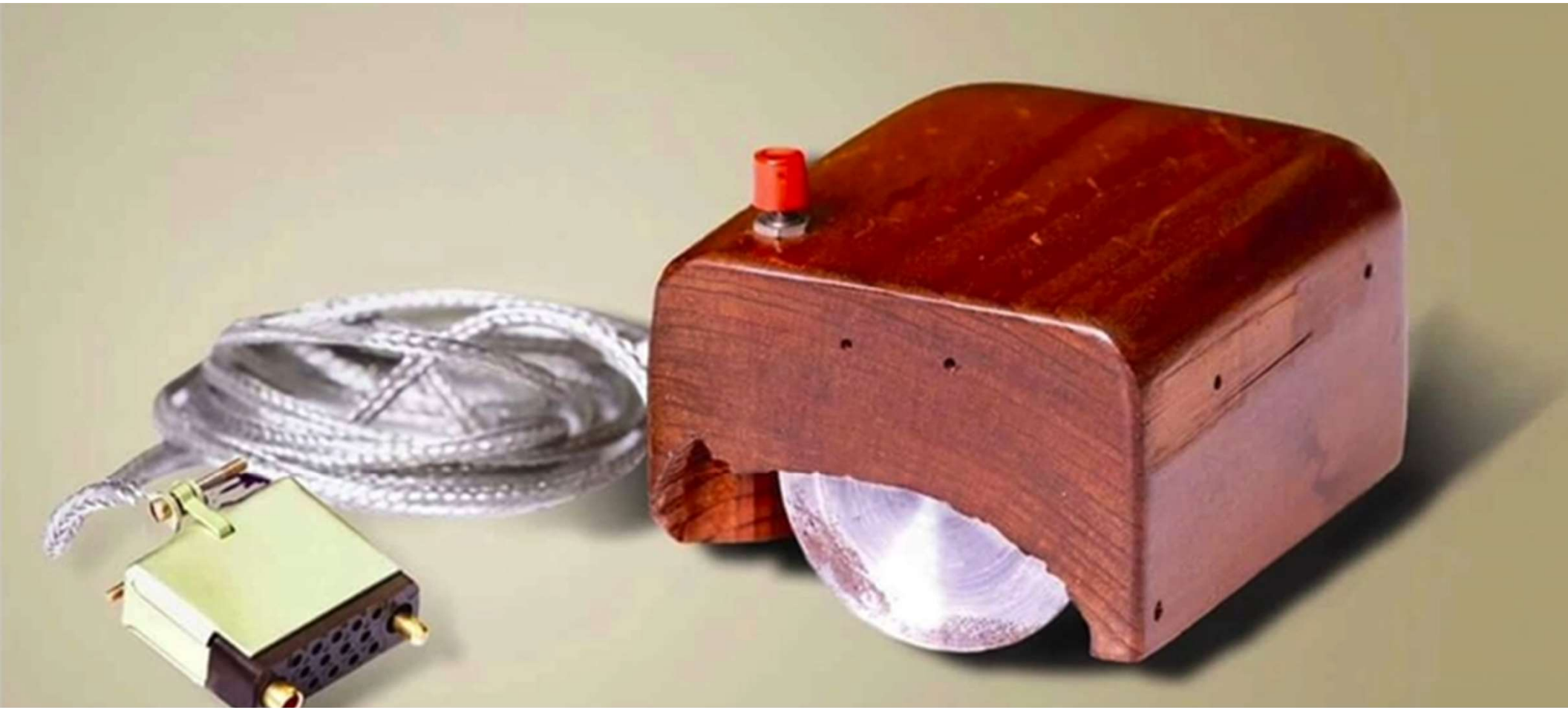


LAN



OOP

GUI



Also Created, The Mouse

Let’s come Back

Tkinter

Graphical
User
Interface

Install Tkinter

Tkinter is part of python standard library

No need to install it separately

Create a new Window

```
import tkinter
```

```
window=tkinter.Tk()
```

Keep the window on screen

window.mainloop()

Looping should be at the end

Setting the title

window.title(“My First Program”)

Setting the Minimum Size of the Window

window.minsize(width=500, height=500)

Creating a Label and Adding it on screen

```
my_label=tkinter.Label(text="Iam
a Label", font=("Arial",24,"bold")
```

```
my_label.pack()
```

Changing the Alignment

- mylabel.pack(side="left/right/bottom/top")

Default Arguments

Arguments with Default Values

```
def my_function(a=1, b=2, c=3):
    #Do this with a
    #Then do this with b
    #Finally do this with c
```

*args

- def add(*args):

```
    sum=0
     for i in args:
          sum=sum+I
     return sum
```

**kwargs

- def calc(n, **kwargs)
- It’s like a dictionary

- calc(3, add=3, multiply=4)