EVENTS IN TK LIBRARY

WHAT IS AN EVENT AND HOW TO USE IT?

Events are used to track user interaction with the windows.

Examples of events:

- User click on a shape
- User type on the keyboard

With TK you can trigger a function every time an event happens.

EXAMPLE CODE: CLICK EVENT

Trigger function should **always** have a parameter « **event** »

```
def myEventTrigger(event):
    print("User has clicked at position : ", event.x, event.y)
    This is the ID
    of the shape

canvas = tk.Canvas(frame)

oval = canvas.create_oval(50, 50, 300, 300, fill="red", tags="PNCTarget")
    canvas.tag_bind("PNCTarget", "<Button-1>", myEventTrigger)
```

Use « tag_bind » to link a function with an event

<**Button-1**> = left button of mouse <**Button-2**> = right button of mouse

The name of the function to call every time the event will happen

EXAMPLE CODE: CHANGE A SHAPE COLOR IN TRIGGER FUNCTION

```
def myEventTrigger(event):
    print("User have clicked at position : ", event.x, event.y)
    randomColor = random.choice(colors)
    canvas.itemconfig(oval, fill=randomColor)
    canvas.move(secretCircle, 0, -20)

    Use « itemconfig » to change a shape color

    Use « move » to change a shape position

canvas = tk.Canvas(frame)
colors = ["red", "orange", "yellow", "green", "blue", "indigo", "violet"]
oval = canvas.create_oval(50, 50, 300, 300, fill="red", tags="PNCTarget")
canvas.tag_bind("PNCTarget", "<Button-1>", myEventTrigger)
```

Put the shape inside a variable so you can modify it later