Python : My journey
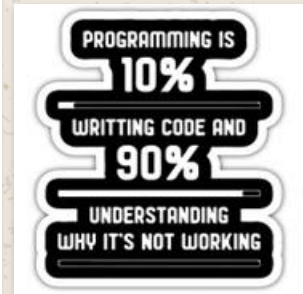
-Tanya S Naik

#e4d3c5

Print('Hello World!')
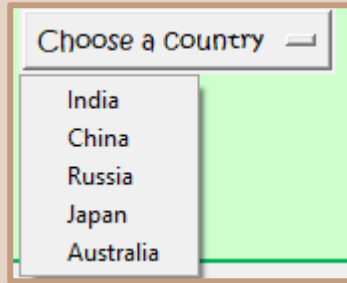
My project

1

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I have enjoyed every minute of these past 2 months, learning how to code in Python.

So, as a capstone project, I have created a quiz with the help of some important concepts.

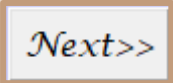I will be briefly recapping some of the major topics we have learnt and which I have made use of in my project

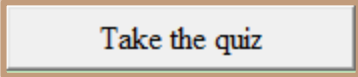# 1.WIDGETS

Topic Highlight : DROPDOWN MENU

2
3
4
5
6

Choose a Country	⌐
India	
China	
Russia	
Japan	
Australia	

```
options =
['India','China','Russia','Japan','Australia']

dropdown = OptionMenu(frame1,var,*options)
```

Radiobuttons

- ○ KOLKATA
- ○ CHENNAI
- ◉ NEW DELHI
- ○ BANGALORE

Buttons

Next>>

Take the quiz

```
Button(frame,text='Next>>').pack()
```

2.LAYOUT MANAGERS

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The .pack() method declares the position of widgets in relation to each other.

```
.pack()
.pack(side=LEFT)
```

The .place() method organizes the widgets to place them in a specific position as directed by the programmer.

```
.place(x=20,y=40)
.place(anchor=NW,x=10,y=10)
```

The .grid() method allows you to indicate the row and column positioning in its parameter list.

```
.grid(row=0,column=0)
.grid(row=1,column=0,padx=10,pady=5)
.grid(row=0,column=1,ipadx=5,ipady=5)
```

Each of the three layout managers ~ pack, place, and grid ~ should never be used in conjunction with each other.

3.DEFINING FUNCTIONS

Example:

FUNCTION NAME

```python
def add(a,b):
    sum=a+b
    print(sum)

add(5,8)
```

PARAMETERS

ARGUMENTS

Global variables are those which are accessible throughout the program and inside every function.

```python
def function():
    global a
    a='Python'
    print('Welcome to',a)
print(a)
```

Local variables : accessible only inside the function in which it was initialized.

```python
def function():
    a='Python'
    print(f'{a} is a programming language')
print(a)
------------
NameError 'a' is not defined outside the function.
```

```
*console*

Welcome to Python
Python
```

4

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4.CONFIGURATION

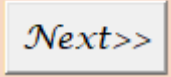The .config() is used to update widgets according to the programmer's need.

State of a button:

```
btn.config(state=DISABLED)
btn.config(state=NORMAL)
```

Button when disabled:

Button being enabled after choosing an option :

Configuring a widget to change as required:

```
def changecolour():
    radiobtn.config(bg='green')

radiobtn=Radiobutton(frame,text='Tokyo',command=changecolour)
```

5. A small peak at my capstone project!

Choose one country from the drop-down menu to take a quiz on the respective country!

Countries

Choose a Country

PROJECT BY: TANYA S NAIK

What is the capital of India?

- KOLKATA
- CHENNAI
- NEW DELHI
- BANGALORE

Next>>

What is the national game of China?

- FOOTBALL
- TABLE TENNIS
- BADMINTON
- HOCKEY

Next>>

What is Russia's currency called?

- RUBLE
- YEN
- DOLLAR
- EURO

Next>>

BACK

You scored 4/5 Correct! Hope you enjoyed the quiz:)

Which reef system is found in Australia?

- GREAT DIVIDING RANGE
- GREAT ARTESIAN BASIN
- GREAT BARRIER REEF
- AUSTRALASIA

Next>>

How many islands does Japan have?

- 17,131
- 7,852
- 11,283
- 14,125

Finish!

Thank you!

Project   by:
-----Tanya S Naik -----