

REPORT FOR QUIZ APPLICATION WITH PYTHON

As a project work for course

PYTHON PROGRAMMING (INT213)

Under the guidance of

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ABSTRACT:

“Quiz Application” is a collection of number of different types of quizzes like technical, games, sports, etc. A user can access/play the quiz and can attempt any of the questions. There will be limited number of questions and for each correct answer user will get a credit score. User can see answers by clicking the options whether it is correct or wrong. Nowadays, there are many quiz applications available currently on internet. But there are few Which provide better understanding between users and the application like, providing proper answers, user query solving, uploading user questions as well as answer to it, etc. To develop a user-friendly quiz application which will contain: Numbers of questions, Answers to every question, and to improve the knowledge level of users. To develop an application which will contain solution to the above problems. By this application the user will come to know about his/her level and can learn additional knowledge. Also, by this application a user can expand his/her knowledge among the world.

ACKNOWLEDGEMENT:

I would like to thank my professor Ankita Wadhawan, for giving me this opportunity to make this project which helped me in grabbing knowledge in GUI, Python and all my friends who supported in the completion of the project.

INTRODUCTION:

Python:

The quiz module is developed using python. Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms and can be freely distributed.

Tkinter:

Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter outputs the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task. Tkinter includes a number of Python modules. The two most important modules are the Tkinter module itself, and a module called Tkconstants. The former automatically imports the latter, so to use Tkinter, all you need to do is to import one module

Quiz Application with Python:

We are designing a quiz module with a proper interface. When the user starts attempting quiz, they would have five questions. Out of those five questions they can select any question and start answering to that question. Also, each question will have 3 options in which one is correct and remaining are incorrect. If the person selects correct answer, then it displays as CORRECT and MARKS OBTAINED: 1. If the person selects wrong answer, then it displays as INCORRECT and MARKS OBTAINED: 0.

The quiz is an application to take test in an efficient manner and no time wasting for checking the paper. The main objective of quiz is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves lots of time but also gives fast results. This can be used in educational institutions as well as in cooperate world. Can be used anywhere any time as it is application (user location doesn't matter). No restriction that examiner has to be present when the candidate takes the test.

OBJECTIVES:

- Aiding in language development with the questions based in the language alone.
- Aiding in the team building process.

- The questions in the quiz will be regarding python programming with three options.
- To increase the efficiency and knowledge of the user related to python programming.
- To provide a good and knowledge full interface to the users to sharp their skills.

Code:

```
pythonprojecttheend.py - C:\Users\THEIASW\OneDrive\Desktop\visual python\pythonprojecttheend.py (3.10.0)
File Edit Format Run Options Window Help
from tkinter import *
from tkinter import ttk

y = 0
a = ttk.Notebook()
frame1 = ttk.Frame(a)
frame2 = ttk.Frame(a)
frame3 = ttk.Frame(a)
frame4 = ttk.Frame(a)
frame5 = ttk.Frame(a)

root = ttk.Frame(a)

def a1_right():
    Label(frame1, text="correct", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame1, text="Marks obtained : 1", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a1_wrong():
    Label(frame1, text="Incorrect", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame1, text="Marks obtained : 0", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a2_right():
    Label(frame2, text="correct", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame2, text="Marks obtained:1", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a2_wrong():
    Label(frame2, text="Incorrect", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame2, text="Marks obtained : 0", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a3_right():
    Label(frame3, text="correct", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame3, text="Marks obtained:1", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a3_wrong():
    Label(frame3, text="Incorrect", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame3, text="Marks obtained : 0", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a4_right():
    Label(frame4, text="correct", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame4, text="Marks obtained:1", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def a4_wrong():
    Label(frame4, text="Incorrect", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame4, text="Marks obtained : 0", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)
```

```
pythonprojecttheend.py - C:\Users\THEJASWI\OneDrive\Desktop\visual python\pythonprojecttheend.py (3.10.0)
File Edit Format Run Options Window Help

def a5_wrong():
    Label(frame5, text="Incorrect", font=("Arial", 40, "bold"), background="green", fg="yellow").grid(row=1, column=2)
    Label(frame5, text="Marks obtained : 0", font=("Arial", 40, "bold"), background="black", fg="white").grid(row=1, column=3)

def quiz(y):
    a.add(frame1, text="Q1")
    a.add(frame2, text="Q2")
    a.add(frame3, text="Q3")
    a.add(frame4, text="Q4")
    a.add(frame5, text="Q5")

Label(frame1, text="Total keywords in python?", font=("Arial", 50, "bold")).grid(row=2, column=2)
Button(frame1, text="33", font=("Arial", 30, "bold"), bg="light blue", command=a1_right).grid(row=3, column=1)
Button(frame1, text="31", font=("Arial", 30, "bold"), bg="light green", command=a1_wrong).grid(row=3, column=2)
Button(frame1, text="30", font=("Arial", 30, "bold"), bg="light pink", command=a1_wrong).grid(row=3, column=3)

Label(frame2, text="Output of 2**3?", font=("Arial", 50, "bold")).grid(row=2, column=2)
Button(frame2, text="6", font=("Arial", 30, "bold"), bg="light blue", command=a2_wrong).grid(row=3, column=1)
Button(frame2, text="8", font=("Arial", 30, "bold"), bg="light green", command=a2_right).grid(row=3, column=2)
Button(frame2, text="9", font=("Arial", 30, "bold"), bg="light pink", command=a2_wrong).grid(row=3, column=3)

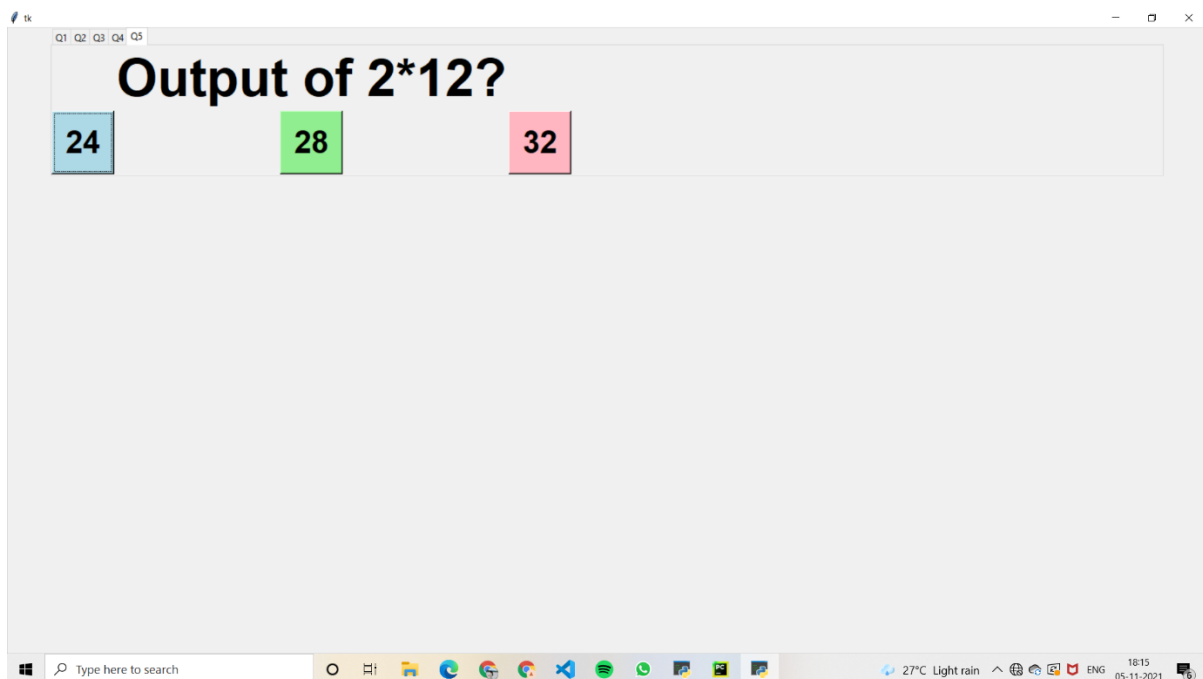
Label(frame3, text="Output of np.arange(1,5)?", font=("Arial", 50, "bold")).grid(row=2, column=2)
Button(frame3, text="[1,2,3,4]", font=("Arial", 30, "bold"), bg="light blue", command=a3_right).grid(row=3, column=1)
Button(frame3, text="[0,1,2,3,4]", font=("Arial", 30, "bold"), bg="light green", command=a3_wrong).grid(row=3, column=2)
Button(frame3, text="[1,2,3,4,5]", font=("Arial", 30, "bold"), bg="light pink", command=a3_wrong).grid(row=3, column=3)

Label(frame4, text="Keyword use to declare a function?", font=("Arial", 50, "bold")).grid(row=2, column=2)
Button(frame4, text="def", font=("Arial", 30, "bold"), bg="light blue", command=a4_wrong).grid(row=3, column=1)
Button(frame4, text="define", font=("Arial", 30, "bold"), bg="light green", command=a4_right).grid(row=3, column=2)
Button(frame4, text="None", font=("Arial", 30, "bold"), bg="light pink", command=a4_wrong).grid(row=3, column=3)

Label(frame5, text="Output of 2*12?", font=("Arial", 50, "bold")).grid(row=2, column=2)
Button(frame5, text="24", font=("Arial", 30, "bold"), bg="light blue", command=a5_right).grid(row=3, column=1)
Button(frame5, text="28", font=("Arial", 30, "bold"), bg="light green", command=a5_wrong).grid(row=3, column=2)
Button(frame5, text="32", font=("Arial", 30, "bold"), bg="light pink", command=a5_wrong).grid(row=3, column=3)

quiz(y)
a.pack()
a.mainloop()
```

QUIZ MODULE SCREENSHOTS:



tk Q1 Q2 Q3 Q4 Q5

correct Marks obtained : 1

Total keywords in python?

33 31 30

Type here to search 27°C Light rain 18:12 05-11-2021

tk Q1 Q2 Q3 Q4 Q5

Incorrect Marks obtained : 0

Output of 2**3?

6 8 9

Type here to search 27°C Light rain 18:13 05-11-2021

CONCLUSION:

- This quiz system module provides the service of attempting the quiz having some questions.
- The project is user friendly. It is very handy to use.
- The backend coding which is in python is easy to read and understandable.
- It displays the questions effectively and performs the function very effectively in the backend.

REFERENCES:

1. Class lecture.
2. <https://www.geeksforgeeks.org/python-mcq-quiz-game-using-tkinter/>
3. <https://www.slideshare.net/harshverma164/minor-project-report-for-quiz-application>