

# Examination portal in python

## Requirements:-

1. Python 3.6 or higher
2. Internet Connection ( Required for sending emails )
3. Gmail SMTP Setup
4. JSON
5. Python libraries
  - Tkinter
  - Smtplib
  - Hashlib
  - Random

## Alignment of files in folder :- ( exam\_system )

```
exam_system/
├── main.py
├── gui.py
├── auth.py
├── exam.py
├── admin.py
├── utils/
│   └── email_utils.py
├── data/
│   ├── users.json
│   └── questions.json
```

First Open the “email\_utils.py” file in any editor and modify

```
SENDER_EMAIL = "your_email@gmail.com"

SENDER_PASSWORD = "your_app_password"
```

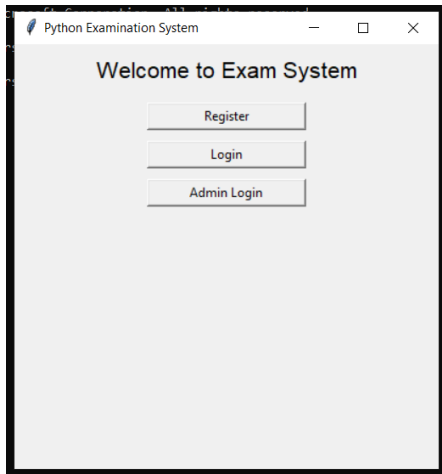
With your gmail and app password it is used to send otp's

- Go to: <https://myaccount.google.com/apppasswords>
- Generate a password for “GMail”
- Copy it and paste into `SENDER_PASSWORD`

And save the file

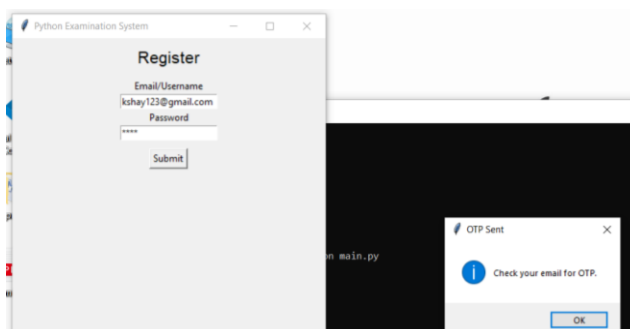
## How to Run :-

- Open terminal/command prompt on your PC.
- Navigate to 'exam\_system' folder
- Run command : `python main.py`
- This opens the GUI window:

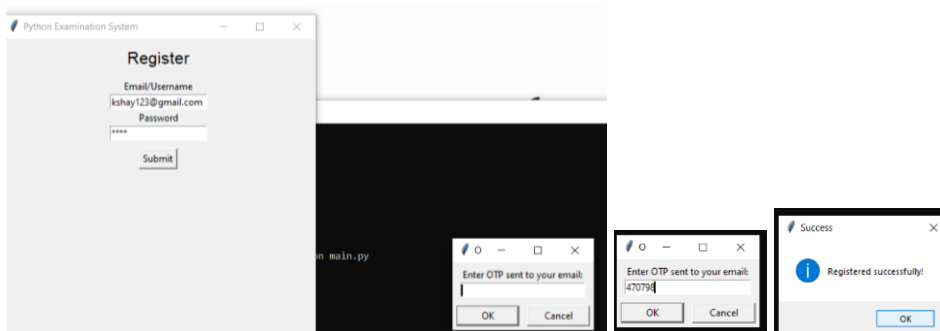


## For User :-

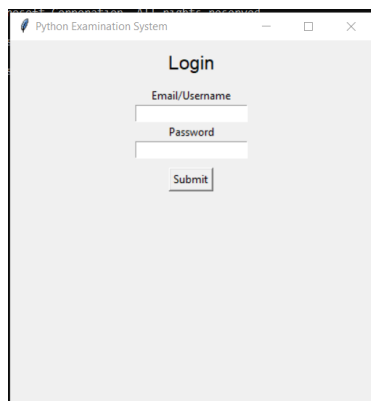
- First click on register to enroll user for exam



- After entering the details you will get OTP to email for valid user

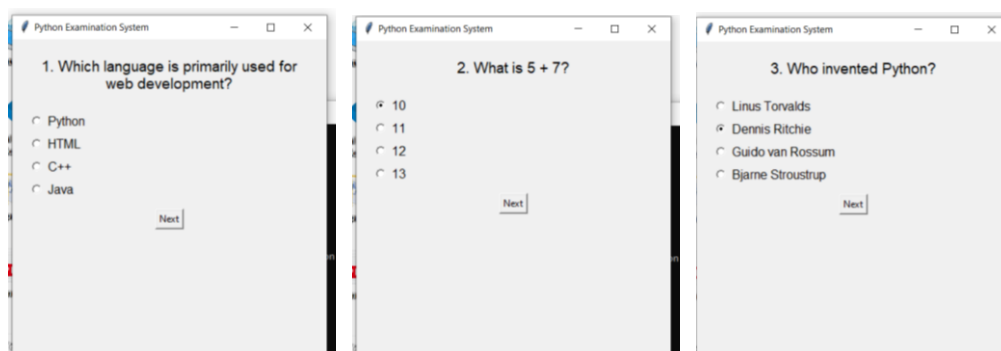


- Now click on the login give the details for the exam

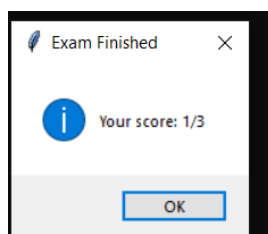


A screenshot of a web application window titled "Python Examination System". It features a "Login" section with two input fields: "Email/Username" and "Password". Below these fields is a "Submit" button.

- Now it ask the questions after completing exam it will show the result



Three screenshots of the "Python Examination System" showing a sequence of questions. The first screenshot shows question 1: "Which language is primarily used for web development?" with radio button options for Python, HTML, C++, and Java. The second screenshot shows question 2: "What is 5 + 7?" with radio button options for 10, 11, 12, and 13. The third screenshot shows question 3: "Who invented Python?" with radio button options for Linus Torvalds, Dennis Ritchie, Guido van Rossum, and Bjarne Stroustrup. Each screenshot includes a "Next" button at the bottom.

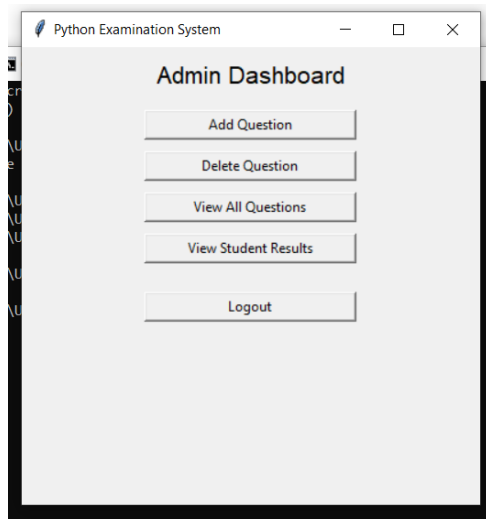


A screenshot of a dialog box titled "Exam Finished". It contains an information icon and the text "Your score: 1/3". At the bottom is an "OK" button.

### For Admin :-

Username: admin
Password: admin123

- Admin can add/delete/view Questions
- View Student Scores also



### **For DataBase:-**

- For Database used JSON files
- No need to create JSON files it create automatically while executing

