



# ENGINEERING EXPLORATION

**TITLE OF THE PROJECT:  
YOU SAY WE SOLVE !!**

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## ABSTRACT :

We create a portal that enables students of any institution to ask questions to clear their doubts. Any person can ask the questions in the Portal. The faculty of the institution will have the access to the Portal, They can answer the questions of the students. Students can also get the mail ID of the respective faculty. If they are interested in an in-depth analysis of the topic, get suggestions.



# INTRODUCTION :

U SAY WE SOLVE is a platform to ask questions from different subjects and concepts and get answers through our platform . That means you can use this platform to find answers for your questions. Its purpose is to get answers for questions which you find hard to solve from the faculty of the institution.

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## **Hardware Requirements :** 64-bit Operating System

**Software  
Requirements :**  
  
Python,  
Tkinter(GUI), PIP,  
PIL



# KEY FEATURES:

- **GUI:** Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create GUI applications.

Widgets	Description
Label	It is used to display text or image on the screen
Button	It is used to add buttons to your application
Canvas	It is used to draw pictures and others layouts like texts, graphics etc.
ComboBox	It contains a down arrow to select from list of available options
CheckBox	It displays a number of options to the user as toggle buttons from which user can select any number of options.
RadioButton	It is used to implement one-of-many selection as it allows only one option to be selected

**PIP** : PIP is a package manager for Python packages

**PIL** : The Python Imaging Library adds image processing capabilities to your Python interpreter. This library provides extensive file format support, an efficient internal representation, and fairly powerful image processing capabilities.

**.exe** : It is a computer file that contains an encoded sequence of instructions that the system can execute directly when the user clicks the file icon.

- ❖ We can convert a .py file into .exe with the help of pyinstaller package in command terminal

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- **FILES** : Python supports file handling and allows users to handle files i.e., to read and write files, along with many other file handling options, to operate on files.
  - **MODES TO OPEN A FILE :**
    - “r” for reading
    - “w” for writing
    - “a” for append
    - “r+” for both reading and writing





# ALGORITHM:

**STEP 0 :** Student will enter the portal to ask their questions.

**STEP 1 :** Teachers or faculty who are having access to the page will be given chance to login.

**STEP 2 :** The login details will be showed by asking to enter email id and password.

**STEP 4 :** After entering the correct details teacher will be given access to the page.

**STEP 5 :** On the main page, the teacher can view the questions asked by students.

**STEP 6 :** The answer will be shared to the students immediately.

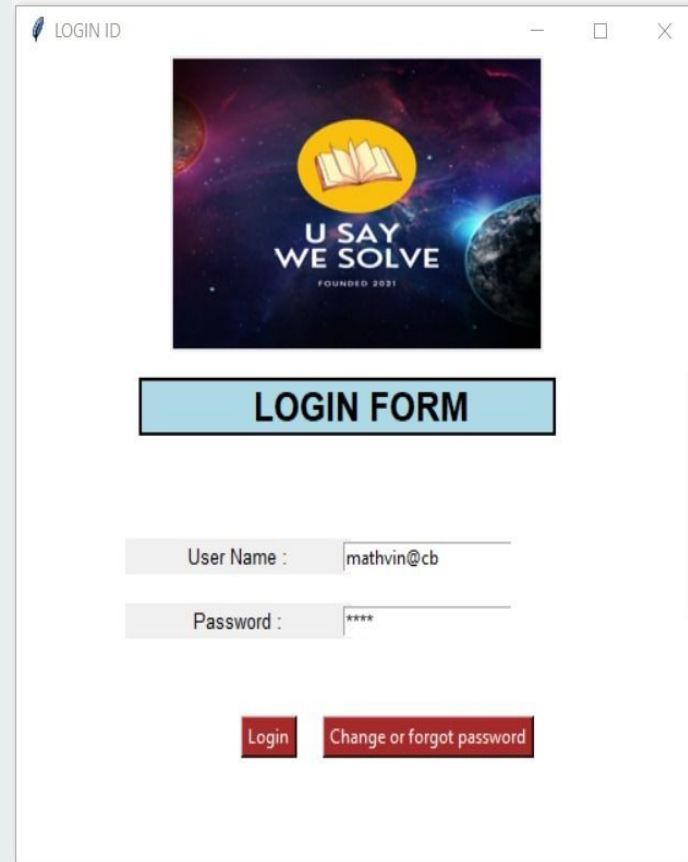
**STEP 7 :** Now students can see the answers for their questions.

**STEP 8 :** Convert the .py file to .exe file

**STEP 9 :** The process is complete

# IMPLEMENTATION:

## ➤ LOGIN FORM :

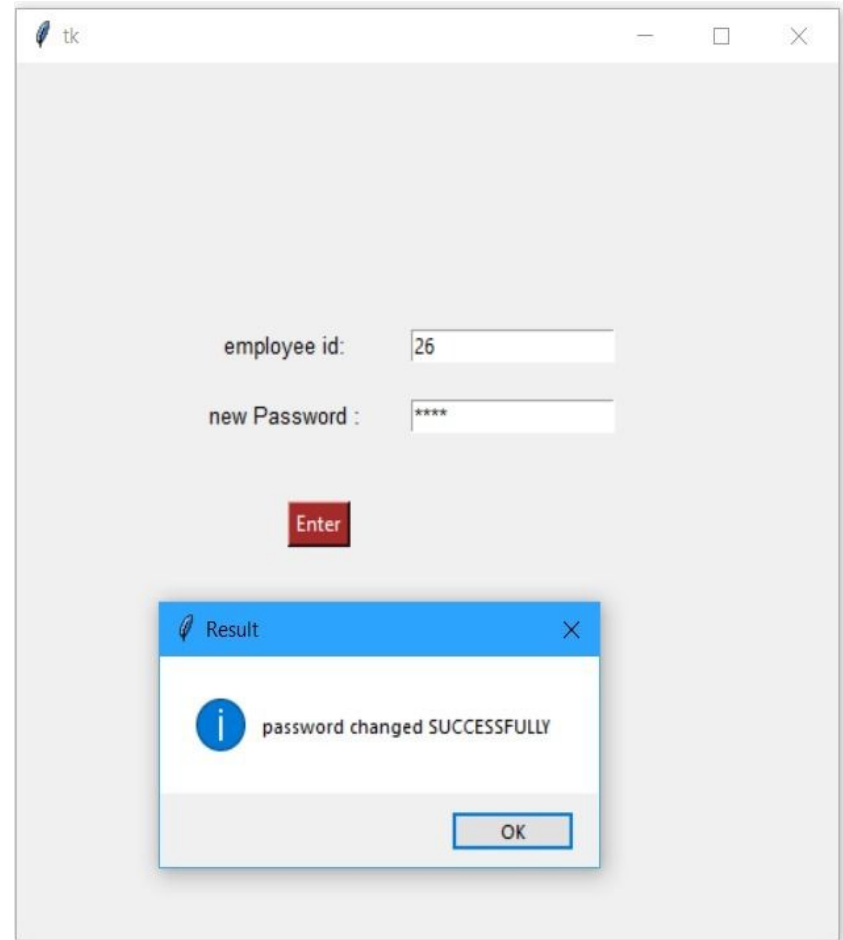


The screenshot shows a window titled "LOGIN ID" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there is a header image with a yellow circle containing an open book icon, the text "U SAY WE SOLVE", and "FOUNDED 2021". Below the header is a light blue box with the text "LOGIN FORM". Underneath this box are two input fields: "User Name :" with the value "mathvin@cb" and "Password :" with masked characters "\*\*\*\*". At the bottom of the window are two red buttons: "Login" and "Change or forgot password".



The screenshot shows a small dialog box titled "Login Result" with a blue header bar and a close button. The main area has a light blue background and contains an information icon (i) followed by the text "Login successful". At the bottom right is an "OK" button.

## ➤ TO CHANGE THE PASSWORD



The image shows a Tkinter window titled 'tk' with a light gray background. It contains two text input fields: 'employee id:' with the value '26' and 'new Password :' with masked characters '\*\*\*\*\*'. Below these fields is a red 'Enter' button. A smaller 'Result' dialog box is open in the foreground, featuring a blue header bar with a close button. It displays an information icon and the text 'password changed SUCCESSFULLY', with an 'OK' button at the bottom.

tk

employee id: 26

new Password : \*\*\*\*\*

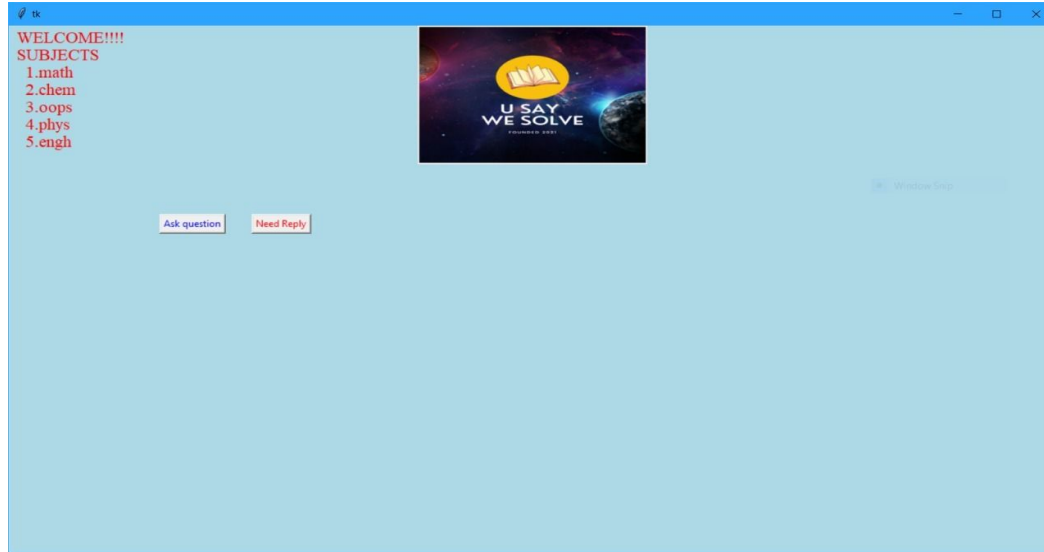
Enter

Result

i password changed SUCCESSFULLY

OK

# ➤ ENTRY FORM



# ➤ TO ASK QUESTION

WELCOME!!!!  
SUBJECTS  
1.math  
2.chem  
3.oops  
4.phys  
5.engh

Ask question Need Reply



Enter Subject math

Enter Question

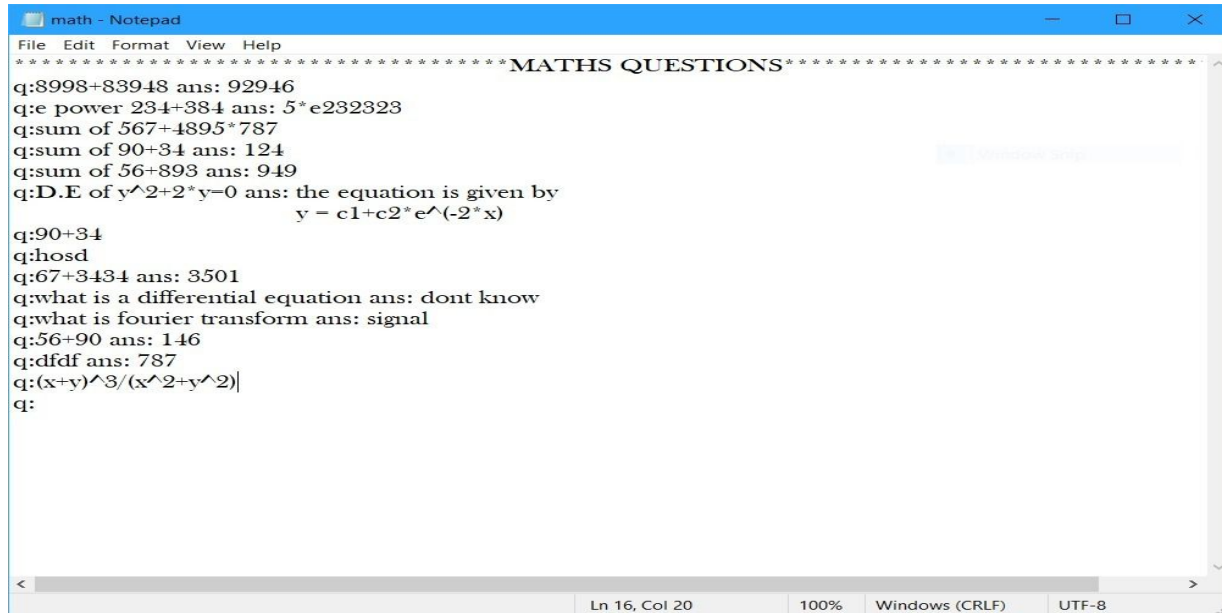
$(x+y)^3 / (x^2+y^2)$

Thank u!

Enter



# ➤ ANSWERING QUESTIONS



```
File Edit Format View Help
*****MATHS QUESTIONS*****
q:8998+83948 ans: 92946
q:e power 234+384 ans: 5*e232323
q:sum of 567+4895*787
q:sum of 90+34 ans: 124
q:sum of 56+893 ans: 949
q:D.E of  $y^2+2*y=0$  ans: the equation is given by
       $y = c1+c2*e^{(-2*x)}$ 
q:90+34
q:hosd
q:67+3434 ans: 3501
q:what is a differential equation ans: dont know
q:what is fourier transform ans: signal
q:56+90 ans: 146
q:dfdf ans: 787
q:(x+y)^3/(x^2+y^2)
q:
```



Ln 16, Col 20    100%    Windows (CRLF)    UTF-8

# RESULT :

WELCOME!!!!

SUBJECTS

- 1.math
- 2.chem
- 3.oops
- 4.phys
- 5.engh



Ask question

Need Reply

Enter Subject

math

Enter Question

8998+83948

question exists!!

ANSWER

92946

Enter



tk

WELCOME!!!!

SUBJECTS

1.math

2.chem

3.oops

4.phys

5.engh

Ask question

Need Reply

Enter Subject

math

Enter Question

$$(x+y)^3 / (x^2+y^2)$$

Enter

U SAY

WE SOLVE

FOUNDED 2021

📖

🧐

🙄

Window Snaps

sorry no answer found





tk

WELCOME!!!!  
SUBJECTS  
1.math  
2.chem  
3.oops  
4.phys  
5.engh

Ask question

Need Reply



Enter Subject

math

Enter Question

$(a+b)^n$

Enter



Window Size

sorry no question found



## ADVANTAGES :

- ❖ Students can seek assistance and support while solving
- ❖ Strengthen the Concept
- ❖ Helps you get a new perspective
- ❖ Extends classroom learning
- ❖ Encouragement of critical thinking

## CONCLUSION :

This is a project based on student teacher interaction. It is an easy and effective way of Interaction between the teacher and student. By this project students will get a good understanding on the subject, will be developed and get good awareness about the technology.

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# FUTURE WORK :

- ❖ Combine the project so that a single interface can be used for both student and faculty
- ❖ Make the project a web application
- ❖ Add comments/feedback on the questions
- ❖ Rate the faculty according to the answer





# References

- ❏ <https://www.geeksforgeeks.org/python-gui-tkinter/>
- ❏ [https://www.w3schools.com/python/python\\_pip.asp](https://www.w3schools.com/python/python_pip.asp)
- ❏ <https://pillow.readthedocs.io/en/stable/>
- ❏ <https://youtube.com/playlist?list=PLCC34OHNcOtoC6GglhF3ncJ5rLwQrLGnV>
- ❏ <https://www.geeksforgeeks.org/file-handling-python/>

**THANK YOU !!**