ENGINEERING EXPLORATION

TITLE OF THE PROJECT: YOU SAY WE SOLVE !!

BATCH-10:

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TABLE OF CONTENTS

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.

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
CheckButton	It displays a number of options to the user as toggle buttons from which user can select any number of options.
RadiButton	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

- **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.

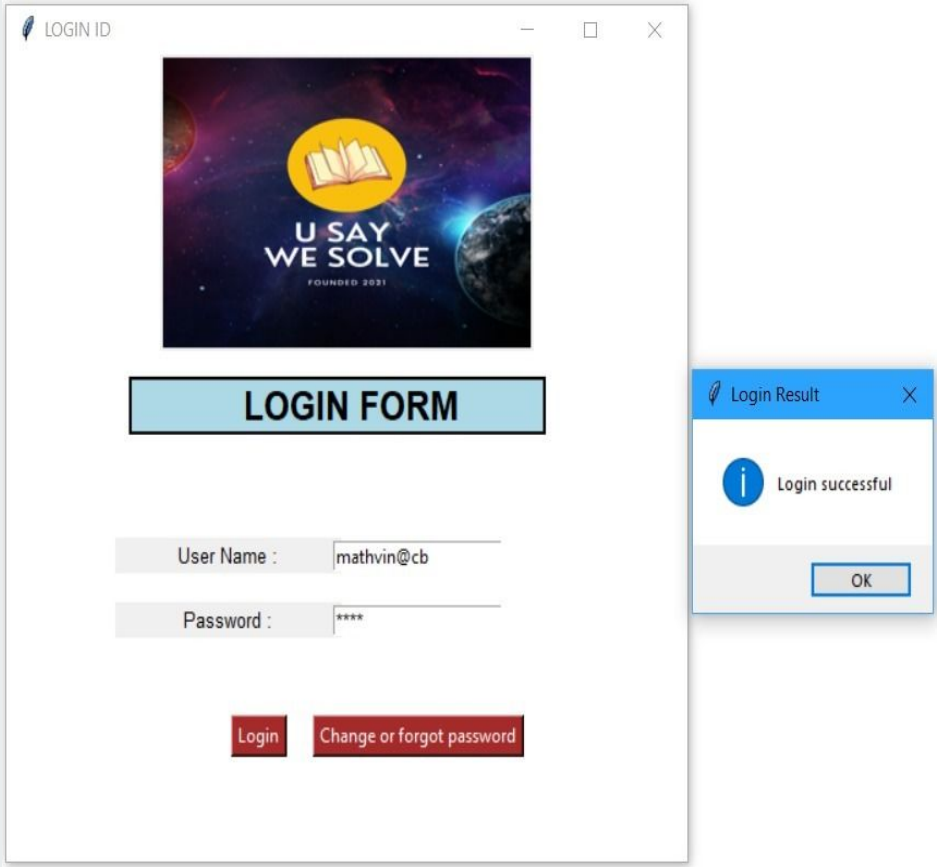
STEP 7 : Now students can see the answers for their questions.

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

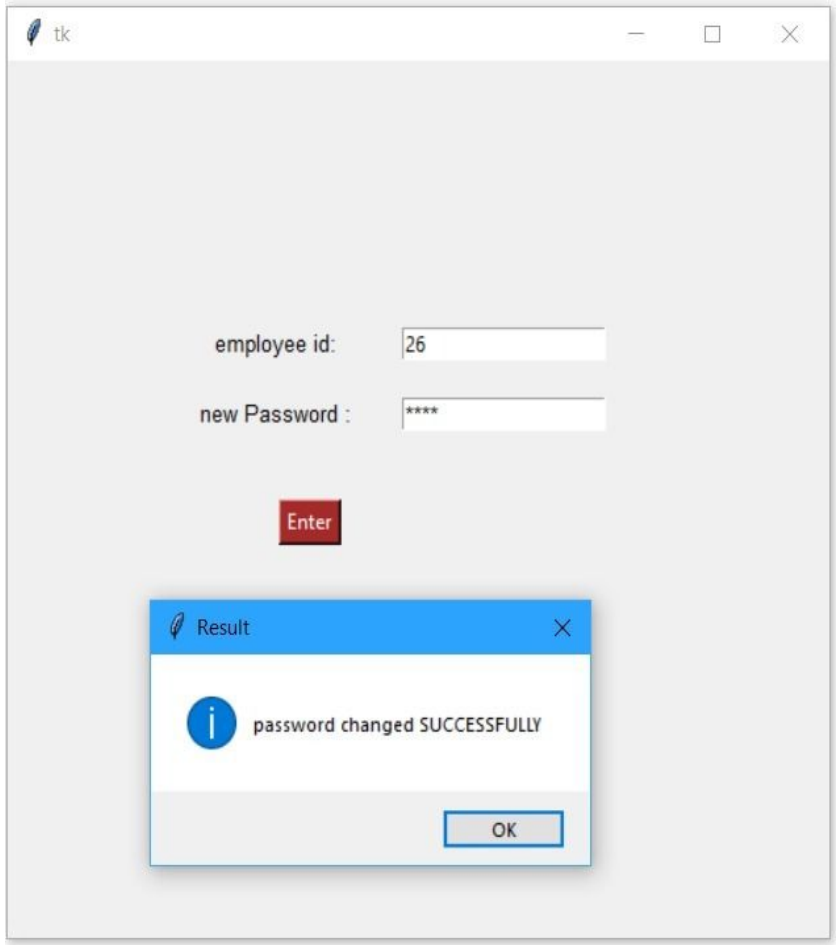
STEP 9 : The process is complete

IMPLEMENTATION:

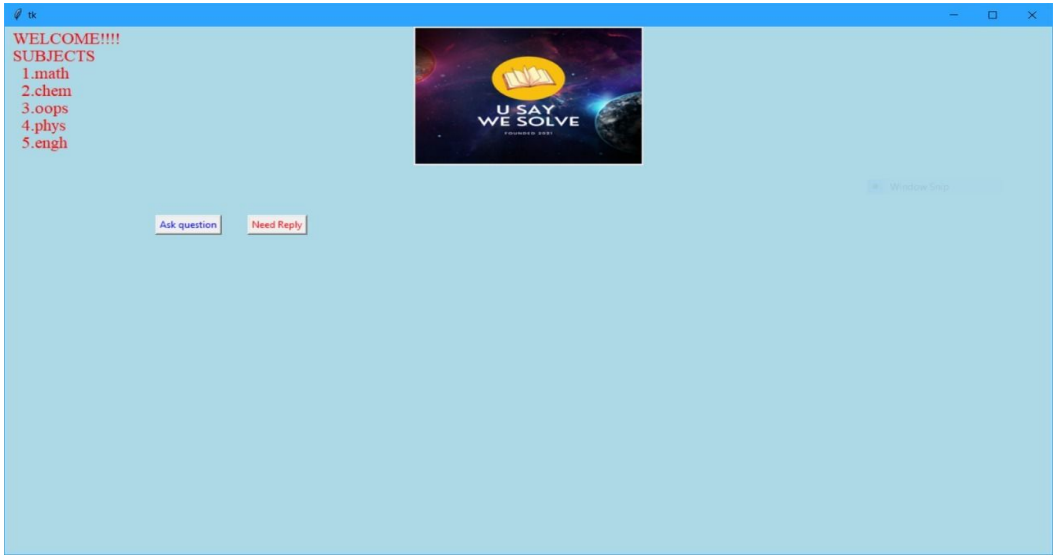
- LOGIN FORM :



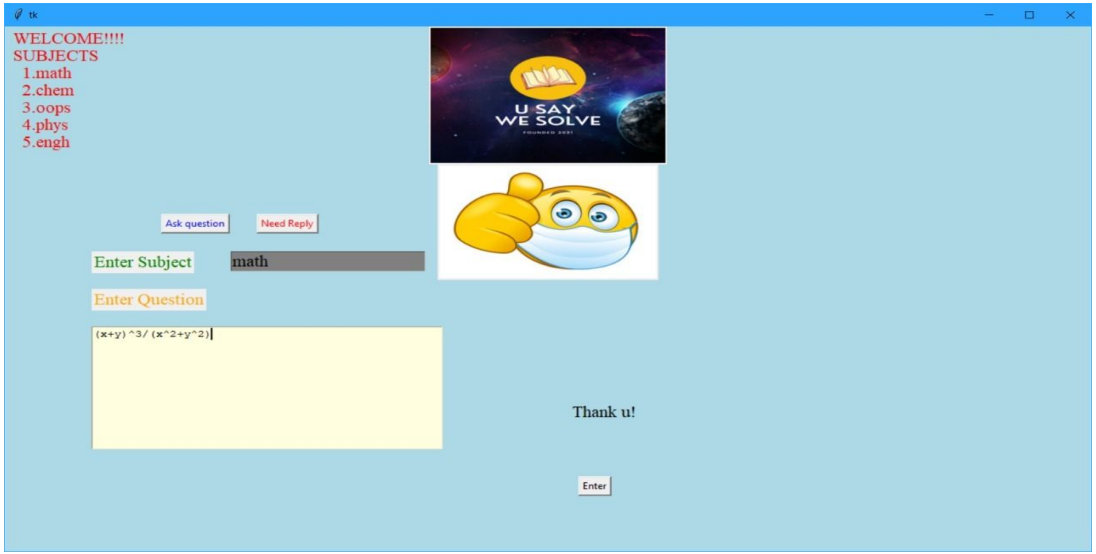
TO CHANGE THE PASSWORD



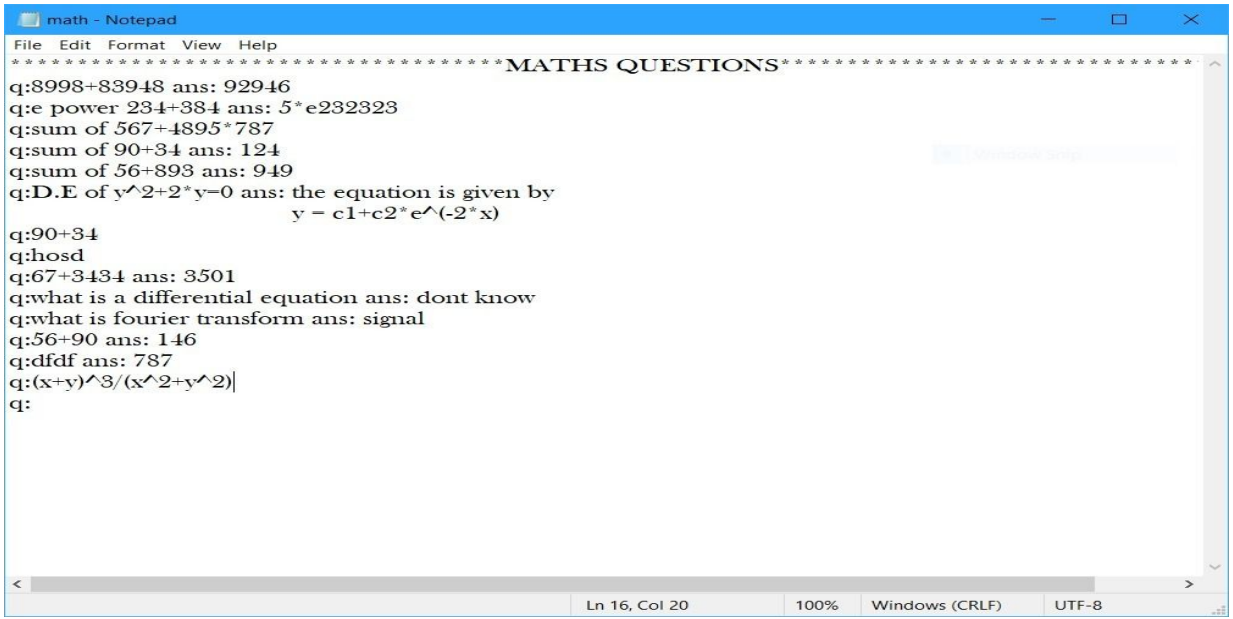
ENTRY FORM


tk
WELCOME!!!!
SUBJECTS
1.math
2.chem
3.oops
4.phys
5.engh
U SAY
WE SOLVE
Ask question
Need Reply

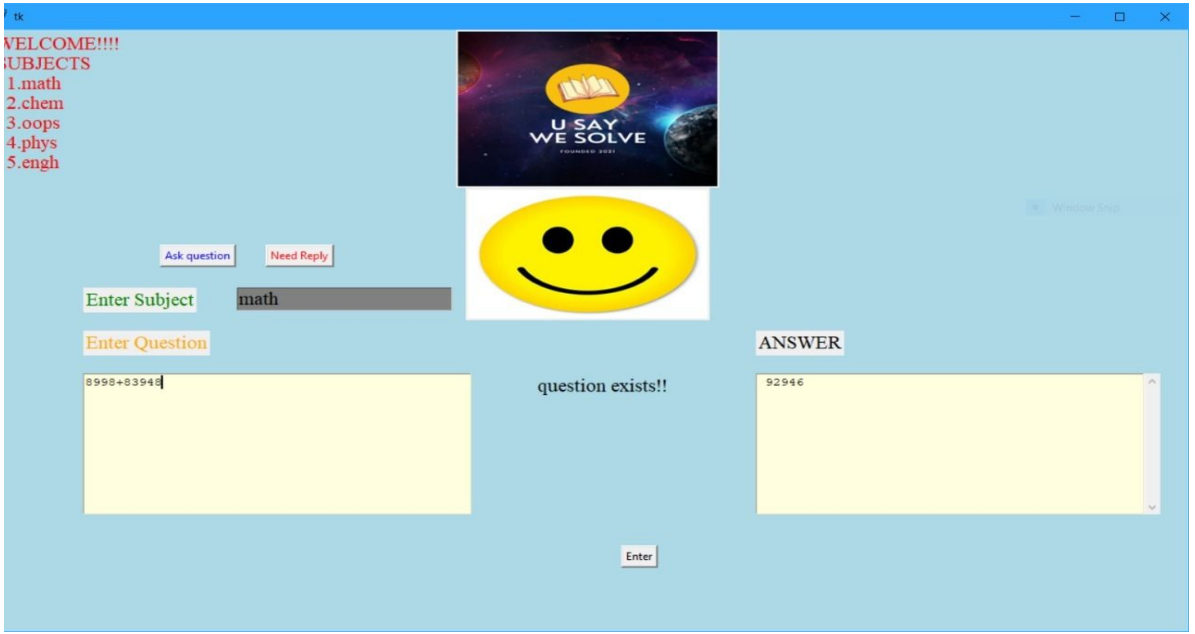
TO ASK QUESTION

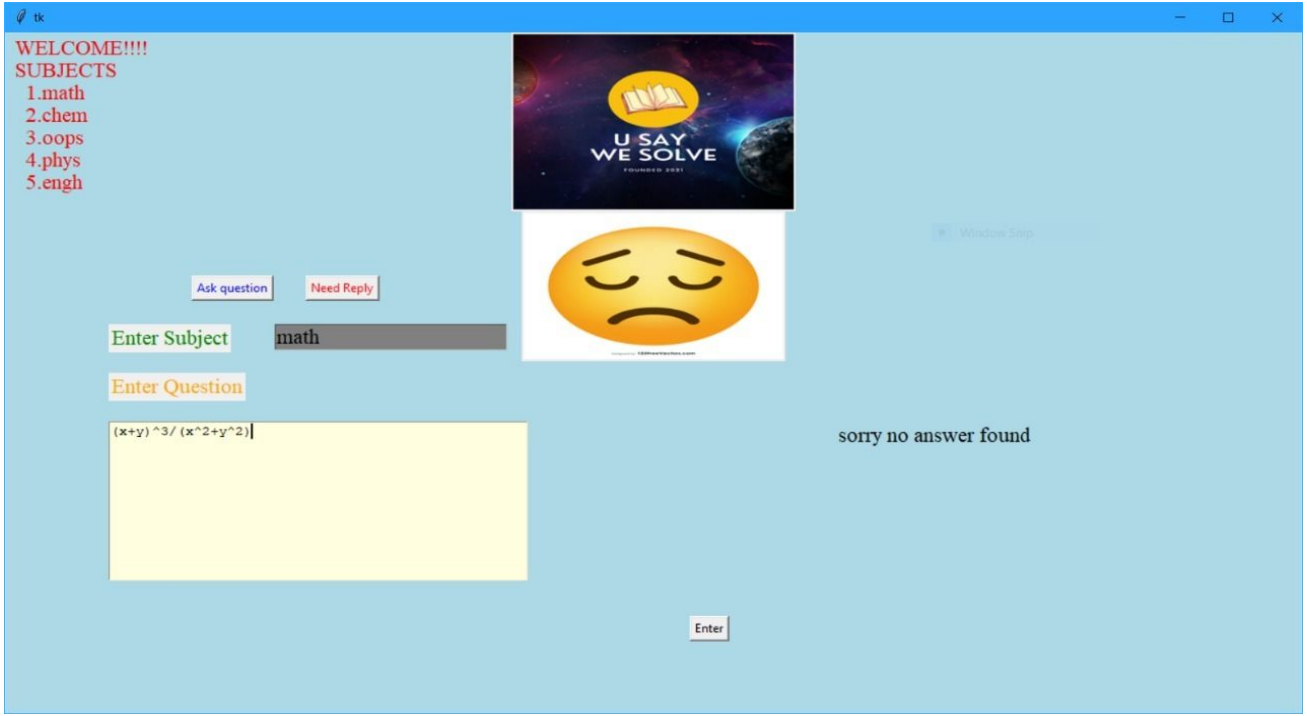


ANSWERING QUESTIONS



RESULT :


tk
VELCOME!!!!
UBJECTS
1.math
2.chem
3.oops
4.phys
5.engh
U SAY
WE SOLVE
Ask question
Need Reply
Enter Subject
math
Enter Question
ANSWER
8998+83948
question exists!!
92946
Enter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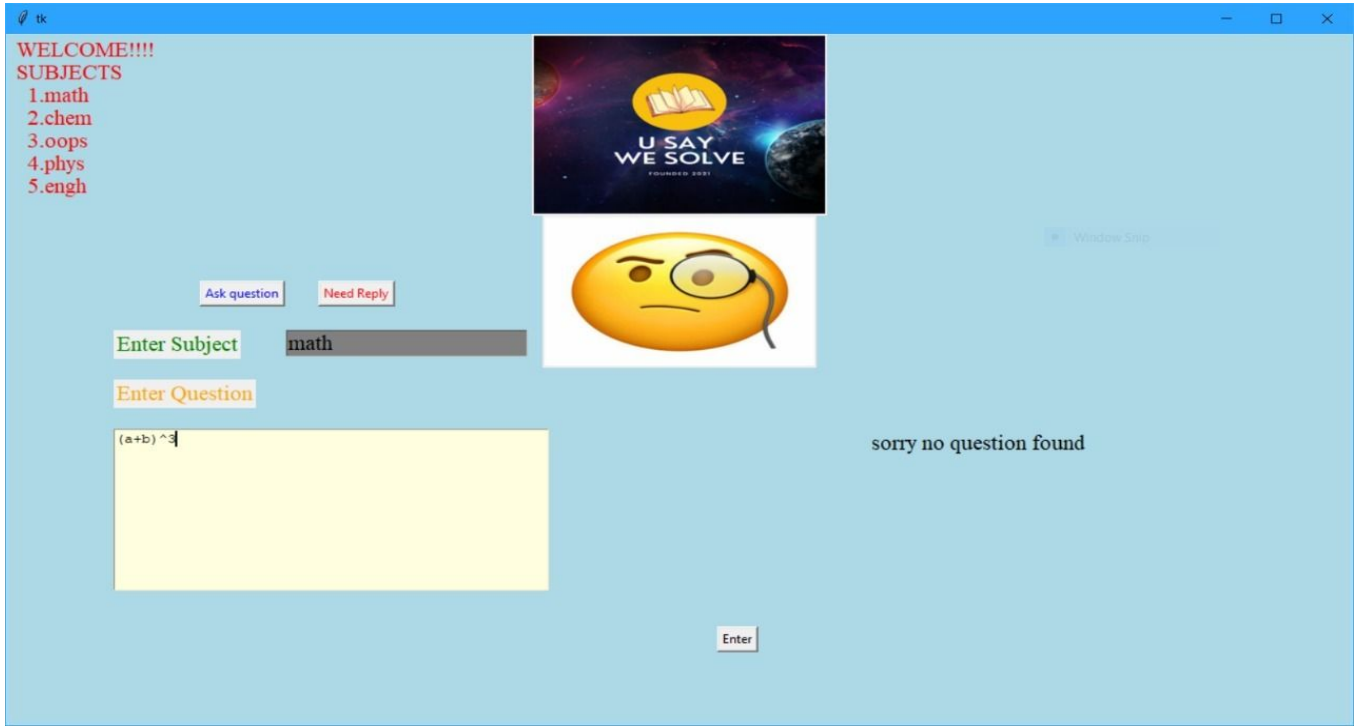
5.engh
U SAY
WE SOLVE
Ask question
Need Reply
Enter Subject
math
Enter Question
(x+y)^3/(x^2+y^2)
sorry no answer found
Enter


tk
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4.phys
5.engh
U SAY
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Ask question
Need Reply
Enter Subject
math
Enter Question
(a+b)^3
sorry no question found
Enter

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.

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

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- https://youtube.com/playlist?list=PLCC34OHNcOtoC6GglhF3ncJ5rLwQrLGnV
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THANK YOU !!