PROGRAMMERSTECH SUMMER INTERNSHIP 2024

PYTHON PROGRAMMING



WHO WE ARE

• PROGRAMMERSTECH IS A REGISTERED GLOBAL COMMUNITY THAT WORKS ON COMPREHENSIVE INFORMATION ABOUT UPCOMING AND LATEST INTERNSHIPS AND JOB UPDATES. WE ARE ON A MISSION TO BUILD GLOBAL COMMUNITY WITH VARIOUS STARTUPS AND COMPANIES WHICH WILL HELP STUDENTS TO BUILD THEMSELVES. MANY PEOPLE ARE NOT GETTING THE UPDATES DUE TO LACK OF OPPORTUNITY, LACK OF RESOURCES, LACK OF AWARENESS THAT WHAT IS GOING ON IN THE CORPORATE SECTOR. TO MEET THE NEED OF SUCH PEOPLE WE MADE PROGRAMMERSTECH.

"BUILD YOURSELF IN WHICH YOU ARE PASSIONATE!"



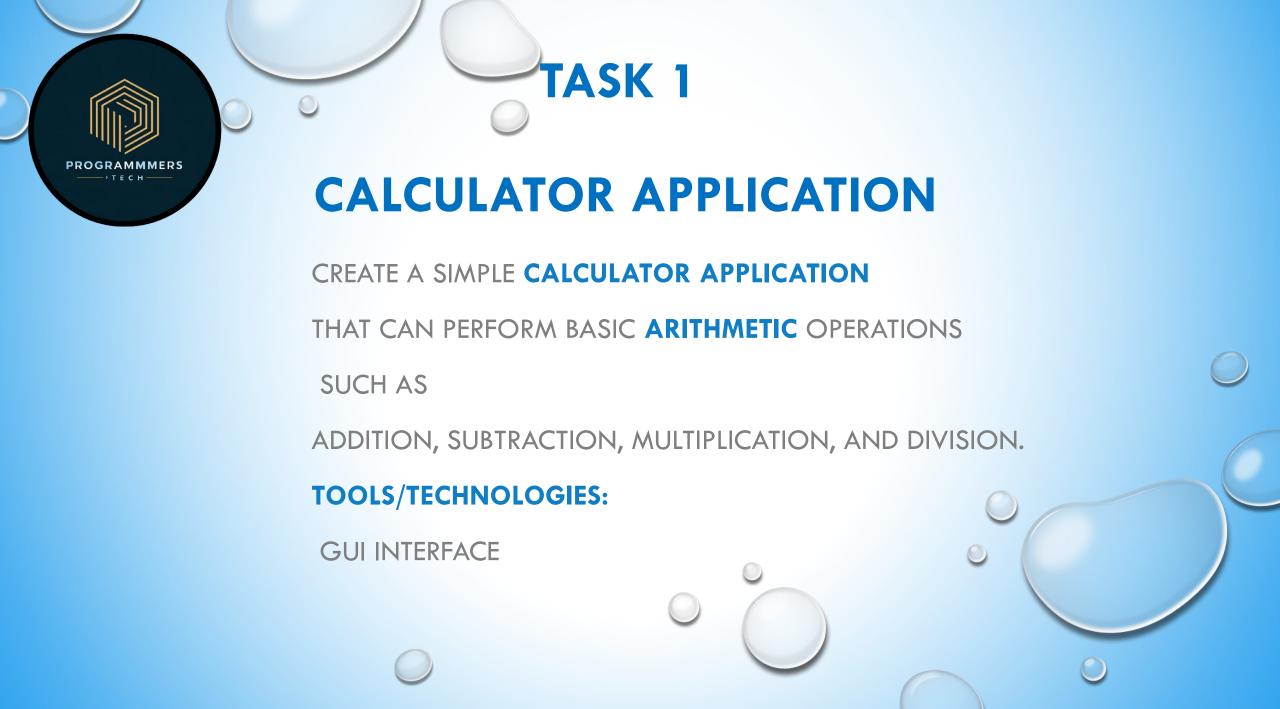


UNKEDIN PROFILE IMPROVEMENT (MANDATORY TASK)

MAKE A POST AND PUBLISH IT ON YOUR **LINKEDIN PROFILE** TO SHOWCASE YOUR SELECTION

CERTIFICATE & OFFER LETTER(TAG PROGRAMMERSTECH)

- HAVE AT LEAST 500 CONNECTIONS ON YOUR LINKEDIN PROFILE, LIKE:
- CONNECT WITH NEW PEOPLE ACROSS THE GLOBE.
- CONNECT WITH ALUMNI, TEACHERS FROM YOUR COLLEGE & AND OTHER COLLEGES.
- CONNECT WITH INDUSTRIAL EXPERTS.
- CONNECT WITH YOUR COLLEAGUES AND OTHER STUDENTS FROM DIFFERENT COUNTRIES.
- ADD "WEBSITE DEVELOPER INTERN AT **PROGRAMMERSTECH**" IN YOUR LINKEDIN PROFILE HEADER.
- ADD YOUR WEB DEVELOPER EXPERIENCE WITH PT IN YOUR SKILLS AND EXPERIENCE SECTION





Demo:

https://drive.google.com/file/d/1nw_Q86T7yurSC Y6Px5Z_vVk5WIZ6zQgg /view

PASSWORD GENERATOR

A PASSWORD GENERATOR IS A USEFUL TOOL THAT GENERATES STRONG AND

RANDOM PASSWORDS FOR USERS.

THIS PROJECT AIMS TO CREATE A

PASSWORD GENERATOR APPLICATION USING PYTHON, ALLOWING USERS TO

SPECIFY THE LENGTH AND COMPLEXITY OF THE PASSWORD.

USER INPUT: PROMPT THE USER TO SPECIFY THE DESIRED LENGTH OF THE

PASSWORD.

GENERATE PASSWORD: USE A COMBINATION OF RANDOM CHARACTERS TO

GENERATE A PASSWORD OF THE SPECIFIED LENGTH.

DISPLAY THE PASSWORD: PRINT THE GENERATED PASSWORD ON THE SCREEN.



TASK 3

Clone a Desktop Chat Application

- •Objective: Develop a desktop chat application resembling popular messaging platforms.
- •Tools/Technologies: Python, Tkinter (GUI), sockets (networking).
- •GUI Design: Create a user-friendly interface with chat history, message input, and user list.
- •Networking Setup: Implement client-server architecture using Python sockets for real-time messaging.
- •User Authentication: Optional user registration/login with authentication for chat access.
- •Chat Functionality: Enable text messaging, emojis, and file attachments between users.
- •User Interaction: Support group chat rooms, private messaging, and user status indicators.
- •Persistence: Log chat messages locally or in a database for reference.
- •Security Measures: Implement encryption for message security (bonus).
- •Testing and Documentation: Ensure functionality through testing; document usage and technical details.



TASK 4 QUIZ GAME

DEVELOP A QUIZ GAME THAT ASKS USERS MULTIPLE-CHOICE OR FILL-IN-THE-BLANK QUESTIONS ON A SPECIFIC TOPIC. THE GAME

- SHOULD KEEP TRACK OF SCORES, PROVIDE FEEDBACK ON CORRECT/INCORRECT ANSWERS, AND OFFER A VARIETY OF QUESTIONS TO MAKE
- IT CHALLENGING AND ENGAGING.
- LOAD QUIZ QUESTIONS.
- DISPLAY WELCOME MESSAGE AND RULES.

FOR DEMO: HTTPS://DRIVE.GOOGLE.COM/FILE/D/1OGJY1NEORHTKB-ZIWTFUN6JS-GLFBLU-/VIEW

- PRESENT QUIZ QUESTIONS:
- DISPLAY EACH QUESTION AND ANSWER CHOICE.
- PROMPT THE USER TO SELECT AN ANSWER.
- EVALUATE THE USER'S ANSWER: AND COMPARE THE USER'S ANSWER WITH THE CORRECT ANSWER.
- KEEP TRACK OF THE USER'S SCORE. AND PROVIDE FEEDBACK:
- DISPLAY IF THE ANSWER WAS CORRECT OR INCORRECT & SHOW THE CORRECT ANSWER FOR INCORRECT RESPONSES.
- CALCULATE THE FINAL SCORE., DISPLAY FINAL RESULTS & PRINT THE USER'S SCORE AND PERFORMANCE MESSAGE.
- PLAY AGAIN:
 ASK THE USER IF THEY WANT OPLAY AGAIN.



IMPORTANT POINTS

- YOU CAN ADD SOME MORE FEATURES ACCORDING TO YOUR INTEREST, IT SHOWS YOUR CREATIVITY.
- PUSH YOUR CODE TO GITHUB AND DO SHARE THE LINK IN THE LINKEDIN POST.
- AFTER COMPLETING THE TASK DO SHARE YOUR TASK VIDEO ALONG WITH THE GITHUB REPO LINK AND POST IT ON LINKEDIN AND DON'T FORGET TO TAG PROGRAMMERSTECH.
- ALSO, DEPLOY YOUR PROJECT ON GITHUB OR NETLIFY IT WILL BE AWESOME.
- YOU CAN ADD THESE PROJECTS TO YOUR RESUME AS WELL.
- SHOW YOUR DESIGN QUALITY THROUGH THIS INTERNSHIP