CODSOFT INTERNSHIP

PYTHON PROGRAMMING

TASK I - CALCULATOR

Created a Calculator with all basic functionalities and use-cases using Python Programming showcasing my developmental skills. The project emphasizes a simple command line interface, ensuring a simple, neat and clean presentation.

```
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         print( 1. Addition )
         print("2. Subtraction")
         print("3. Multiplication")
         print("4. Division")
         choice = input("Enter choice (1/2/3/4): ")
         if choice in ['1', '2', '3', '4']:
                      = float(input("Enter first number: "))
                                  t("Enter second number: "))
                 if choice == '1':
                     result = add(num1, num2)
                 elif choice == '2':
                    result = subtract(num1, num2)
                 elif choice == '3':
                     result = multiply(num1, num2)
                elif choice == '4':
                    result = divide(num1, num2)
                print("Result:", result)
             except ValueError:
                 print("Error: Invalid input. Please enter numeric values.")
            print("Error: Invalid choice. Please select a valid operation.")
     if __name__ == "__main__":
        calculator()
                                                                                  input
((Simple Calculator)))
Belect operation:
 Addition
 Subtraction
 Multiplication
 . Division
Enter choice (1/2/3/4): 1
Enter first number: 4
Inter second number: 5
Result: 9.0
```

TASK 2 - ROCK-PAPER-**SCISSOR GAME**

Designed an engaging rock paper scissor game using Python. The user can choose whether to play the next game or not!

There is also a counter that keeps the track of score till the match you played.

```
H Save
nain.py
        print("2. Paper")
        print("3. Scissors")
                ut("Enter your choice (1/2/3): ") #UC = User Choice
        if UC not in ['1', '2', '3']:
            print("Invalid choice. Please try again.")
        if UC== '1':
            UCN = 'Rock'
        elif UC== '2':
            UCN =
        elif UC== '3':
            UCN = 'Scissors' #UCN = user choice name
        computer_choice = random.choice(['1', '2', '3'])
        if computer choice == '1':
            CCN = 'Rock'#CCN = computer choice name
        elif computer_choice == '2':
            CCN = 'Paper'
        elif computer_choice == '3':
            CCN = 'Scissors'
        print(f"\nYou chose: {UCN}")
        print(f"Computer chose: {CCN}")
        if UC== computer_choice:
            print("It's a tie!")
        elif (UC== '1' and computer_choice == '3') or (UC== '2' and computer_choice == '1') or (UC== '3' and computer_choice == '2'):
            print("You win!")
            Human points += 1
            print("You lose!")
            bot points += 1
        print(f"Scores: You - {Human points}, Computer - {bot points}")
        play_again
                         ut("\nDo you want to play again? (y/n): ").lower()
         if play_again != 'y':
            print("Thanks for playing!")
✓ Z IP ♦ %
                                                                                 input
. Rock
 Paper
omputer chose: Scissors
```

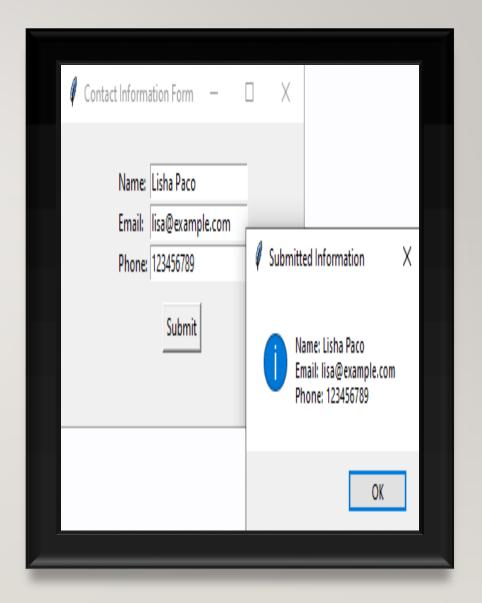
```
Choose your option:
Enter your choice (1/2/3): 1
ou chose: Rock
You win!
Scores: You - 1, Computer - 0
Do you want to play again? (y/n):
```

TASK 3 – CONTACT MANAGER

Developed a functional contact manager app using python and it's library tkinter. It can save record, edit existing record, display pre saved record etc.

The appealing user interface from tkinter provides an efficient interaction between user and the system.

It can also be connected to a file or database to ensure scalability.



The Internship provided me to explore how a developmental approach is taken in the corporate world.

It helped me to learn new techniques and also to explore how github works in the professional world.

These projects also helped me to increase my coding knowledge and gain expertise in Python

The exploration part and the independency of adding features according to myself gave me the liberty to be creative and imaginative .

Overall it was a great experience to learn and develop amazing projects suing Python!



CERTIFICATE

C.ID: 2e3da7e



CERTIFICATE

OF COMPLETION
PROUDLY PRESENTED TO

Prakhar Praveen

has successfully completed 4 weeks of a virtual internship program in

Python Programming

with wonderful remarks at CODSOFT from 01/07/2024 to 31/07/2024.

We were truly amazed by his/her showcased skills and invaluable contributions to the tasks and projects throughout the internship.



Founder









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