

Task 1

Simple Calculator

Script

```
1 #!/usr/bin/env python3
2 # -*- coding: utf-8 -*-
3 """
4 Created on Thu Oct  5 00:29:14 2023
5
6 @author: shrutika
7 """
8
9 a = input("Enter the First number:")
10 b = input("Enter the Second number:")
11 print("Please select operation which should be performed : \n" \
12       "1. Addition\n" \
13       "2. Subtraction\n" \
14       "3. Multiplication\n" \
15       "4. Division\n")
16
17 # Take input from the user
18 choice = int(input("Select operations form 1, 2, 3, 4 :"))
19
20 if choice == 1:
21     add = int(a) + int(b)
22     print("The Sum of two numbers is:", add)
23 elif choice == 2:
24     sub = int(a) - int(b)
25     print("The Difference of two numbers is:", sub)
26 elif choice == 3:
27     mul = int(a) * int(b)
28     print("The Product of two numbers is:", mul)
29 elif choice == 4:
30     if int(b) == 0:
31         print("Cannot divide by zero")
32     else:
33         div = int(a) / int(b)
34         print("The division of two numbers is:", div)
35 else:
36     print('Invalid choice')
```

Output

```
In [1]: runfile('/home/ws3/Desktop/codsoft/Task2/Cali.py', wdir='/home/ws3/Desktop/codsoft/Task2')

Enter the First number:1234

Enter the Second number:4567
Please select operation which should be performed :
1. Addition
2. Subtraction
3. Multiplication
4. Division

Select operations form 1, 2, 3, 4 :2
The Difference of two numbers is: -3333
```

Task 2

Password Generator

Script

```
import secrets
import string

let = string.ascii_letters
digi = string.digits
spl_char = string.punctuation

password = let + digi + spl_char

pass_len = 8

# Use a list store the characters of the password
pass_list = []

for i in range(pass_len):
    pass_list.append(secrets.choice(password))

password_str = ''.join(pass_list)

print(password_str)
```

Output

```
In [2]: runfile('/home/ws3/Desktop/codsoft/Task3/password.py', wdir='/home/ws3/Desktop/codsoft/Task3')
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```

Task 3

Rock Paper Scissors

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Sun Oct 22 18:49:07 2023

@author: shrutika
"""
import random
your_choice=input("enter your choice (Rock,Paper,Scissors)\n")

option=["Rock", "Paper", "Scissors"]
system_choice=random.choice(option)

print("You have choosen:\n",your_choice)
print("System has choosen:\n",system_choice)

###if else function to find which move to be playe dand what result
#will come out

if your_choice==system_choice:
    print(f"its is a tire has both of you have choosen the same move{system_choice}")
elif your_choice=="Rock":
    if system_choice == "Paper":
        print("You lose system wins as Paper covers Rock")
    else:
        print("You win , as Rock Hits Scissors")
elif your_choice == "Paper":
    if system_choice == "Scissors":
        print("You lose system wins as Scissors cuts Paper")
    else:
        print("You win,as Paper covers Rock.")
elif your_choice == "Scissors":
    if system_choice == "Rock":
        print("You lose system wins as  Rock hits Scissors")
    else:
        print("You win, as Scissors cuts Paper.")
```

```
In [13]: runfile('/Users/SHRITHIKA/Desktop/RPS.py', wdir='/Users/SHRITHIKA/Desktop')
enter your choice (Rock,Paper,Scissors)
Scissors
You have choosen:
Scissors
System has choosen:
Rock
You lose system wins as  Rock hits Scissors
```