

## TASK 2,3,4 (3 TASKS COMPLETED) FOR PYTHON INTERNSHIP!!!

### TASK 2: CALCULATOR

```
In [2]: def add(num1, num2):
        return num1 + num2

def subtract(num1, num2):
    return num1 - num2

def multiply(num1, num2):
    return num1 * num2

def divide(num1, num2):
    return num1 / num2

print("Please select operation -\n" \
      "1. Add\n" \
      "2. Subtract\n" \
      "3. Multiply\n" \
      "4. Divide\n")

select = int(input("Select operations form 1, 2, 3, 4 :"))

number_1 = int(input("Enter first number: "))
number_2 = int(input("Enter second number: "))

if select == 1:
    print(number_1, "+", number_2, "=",
          add(number_1, number_2))

elif select == 2:
    print(number_1, "-", number_2, "=",
          subtract(number_1, number_2))

elif select == 3:
    print(number_1, "*", number_2, "=",
          multiply(number_1, number_2))

elif select == 4:
    print(number_1, "/", number_2, "=",
          divide(number_1, number_2))
else:
    print("Invalid input")
```

Please select operation -

1. Add
2. Subtract
3. Multiply
4. Divide

Select operations form 1, 2, 3, 4 :2

Enter first number: 78

Enter second number: 89

78 - 89 = -11

### TASK 3: PASSWORD GENERATOR

```
In [3]: import random
upper_case="ABCDEFGHIIJKLMNOPQRSTUVWXYZ"
lower_case=upper_case.lower()
digits="1234567890"
symbols="!@#$%&*()\|/?"

upper,lower,nums,syms=True,True,True,True
all=""
if upper:
    all+=upper_case
if lower:
    all+=lower_case
if nums:
    all+=digits
if syms:
    all+=symbols

length=10
amount=5

for x in range(amount):
    password="".join(random.sample(all,length))
    print(password)
```

V5lTRvm\*Dc  
/Jg4n\FT@W  
)Mk53H(ISY  
R\*SNweHV0t  
b/\$U93054C

### TASK:4 ROCK-PAPER-SCISSORS-GAME

```
In [4]: import random
options=("rock","paper","scissors")
running=True
while running:
    player=None
    computer=random.choice(options)

    while player not in options:
        player=input("enter a choice (rock,paper,scissors):")
        print(f"player:{player}")
        print(f"computer:{computer}")

    if player==computer:
```

```
    print("it's a tie!")
elif player=="rock" and computer=="scissors":
    print("you win!")
elif player=="scissors" and computer=="paper":
    print("you win!")
elif player=="paper"and computer=="rock":
    print("you win!")
else:
    print("you loose!")
play_again=input("play again?(y/n):").lower()
if not play_again=="y" :
    running=False
print("thanks for playing :)")
```

```
enter a choice (rock,paper,scissors):rock
player:rock
computer:paper
you loose!
play again?(y/n):n
thanks for playing :)
```

Task 2,3,4 are executed and run the output successfully (3 TASKS have been done!)