## CodeWay Task-1

```
To-Do List application
In [2]:
tasks=[{'Task': 'Study', 'completed': False},
       {'Task': 'Walking', 'completed': False},
       {'Task': 'Meeting At 6', 'completed': False},
       {'Task': 'Doctor Appointment', 'completed': False}]
In [3]:
### Function for adding task
def add_new_task():
    new_task=input("Enter task:\n")
    tasks.append({'Task':new_task,'completed':False})
    print("Task '{}' is added to your list\n".format(new_task))
# Function for update task
def update_task():
    print('Select your task to be updated')
    for i in range(len(tasks)):
        print(f'{i+1}:{tasks[i]}')
    task_num=int(input("\nEnter your task num :"))-1
    #print(task_num)
    if 0 <= task_num < len(tasks):</pre>
        print(f'You have select {tasks[task_num]}')
        update_values(task_num)
        print(f"Invaild Range..! Enter between 1 to {len(tasks)}")
# Function for updating values
def update_values(num):
    while True:
        try:
            update_input=int(input('To updated Task Name enter 0 \nTo update Task status enter 1 \nTo Delete Task enter
            if update_input==0:
                new_task_name = input('Enter the new task name: ')
                tasks[num]['Task'] = new_task_name
                print(f'Task name updated to: {new_task_name}')
            elif update_input == 1:
                tasks[num]['completed'] = not tasks[num]['completed']
                status = "Completed" if tasks[num]['completed'] else "Not Completed"
                print(f'Task status updated to: {status}\n')
            elif update_input==2:
                deleted_task = tasks.pop(num)
                print(f'{deleted_task} is deleted.')
            elif update_input == 3:
                print("Exiting the update process.\n")
                break
            else:
                print('Enter a vaild number')
        except ValueError:
            print("Invalid input, please enter vaild input")
        else:
            break
# Function for tracking task
def track_task():
    print("Your Task List\n")
    for i in range(len(tasks)):
        print(f'{i+1}:{tasks[i]}')
    print('\n')
while True:
    print("To Add new task : Enter 1")
    print("To Update task
                           : Enter 2")
    print("To Track your task : Enter 3")
    print("To Exit Application: Enter 4\n")
        choice=int(input("Enter your choice (1-4):\n"))
        if choice==1:
            add_new_task()
        elif choice==2:
            update_task()
        elif choice==3:
            track_task()
        elif choice == 4:
            print("Exiting the application.")
        else:
            print("please enter a valid choice")
    except ValueError:
        print('Invalid input. Please enter a number.\n')
                : Enter 1
To Add new task
                 : Enter 2
To Update task
To Track your task: Enter 3
To Exit Application: Enter 4
Enter your choice (1-4):
Enter task:
movie
Task 'movie' is added to your list
To Add new task
                : Enter 1
To Update task
               : Enter 2
To Track your task: Enter 3
To Exit Application: Enter 4
Enter your choice (1-4):
Your Task List
1:{'Task': 'Study', 'completed': False}
2:{'Task': 'Walking', 'completed': False}
3:{'Task': 'Meeting At 6', 'completed': False}
4:{'Task': 'Doctor Appointment', 'completed': False}
5:{'Task': 'movie', 'completed': False}
To Add new task
                : Enter 1
To Update task
               : Enter 2
To Track your task : Enter 3
To Exit Application: Enter 4
Enter your choice (1-4):
Select your task to be updated
1:{'Task': 'Study', 'completed': False}
2:{'Task': 'Walking', 'completed': False}
3:{'Task': 'Meeting At 6', 'completed': False}
4:{'Task': 'Doctor Appointment', 'completed': False}
5:{'Task': 'movie', 'completed': False}
Enter your task num :4
You have select {'Task': 'Doctor Appointment', 'completed': False}
To updated Task Name enter 0
```

## result=num1\*num2

To update Task status enter 1 To Delete Task enter 2:2

To Add new task : Enter 1

To Track your task: Enter 3 To Exit Application: Enter 4

Enter your choice (1-4):

To Update task

Your Task List

To Add new task

To Update task

To Track your task : Enter 3 To Exit Application: Enter 4

Enter your choice (1-4):

Exiting the application.

CodeWay Task-2

Simple Calculator

result=num1+num2

result=num1-num2

In [4]: def add():

def sub():

def mul():

{'Task': 'Doctor Appointment', 'completed': False} is deleted.

: Enter 2

1:{'Task': 'Study', 'completed': False} 2:{'Task': 'Walking', 'completed': False} 3:{'Task': 'Meeting At 6', 'completed': False}

4:{'Task': 'movie', 'completed': False}

: Enter 1

: Enter 2

print("Addtion of both numbers=",result)

print("Subtraction of both numbers=",result)

```
print("Multiplication of both numbers=",result)
def div():
    if num1 and num2!=0:
        result=num1/num2
        print("Division of both numbers=",result)
        print("Invalid input,Zero cannot be divisible..!")
    num1=int(input("Enter number:"))
    num2=int(input("Enter number:"))
    choice=int(input("Enter 0 for Addition\n Enter 1 for Subtraction\n Enter 2 for Multiplication\n Enter 3 for Divisio
    if choice==0:
        add()
    elif choice==1:
        sub()
    elif choice==2:
        mul()
    elif choice==3:
        div()
    else:
        print("Enter values between 0 to 3")
except Exception as e:
    print(e)
Enter number:34
Enter number:56
Enter 0 for Addition
Enter 1 for Subtraction
Enter 2 for Multiplication
Enter 3 for Division:
Multiplication of both numbers= 1904
Codeway Task-3
Password Generator
```

## password\_str = ''.join(password) print("Your PassWord is:",password\_str)

if length>=8:

else:

password\_generator()

print("Invaild Input")

Enter Length of Password:11 Your PassWord is: Y9rqplV3xjr

CodeWay Task-5

def password\_generator():

letters=list(string.ascii\_lowercase+ string.digits+

string.ascii\_uppercase+ **'#'+'\$'+'&'+'@'+'%'+'\$'+'@')** password=[random.choice(letters) for i in range(length)]

length=int(input("Enter Length of Password:"))

print("Enter length above or Equal to 8")

In [5]:

try:

import random import string

```
Quiz Game
In [6]:
print("Welcome to the English Grammar Quiz!")
print("Test your knowledge of grammar with these questions.")
print("Type the correct answers and see how many you get right!\n")
quiz_questions = [
    ("Choose the correct form: 'She _____ (has/have) a new car.'", "has"),
    ("Identify the type of pronoun in the sentence: 'They gave her the award.' (Personal/Relative/Indefinite)", "indefi
    ("Complete the sentence: 'Neither of them ____ (is/are) coming to the party.'", "is"),
    ("What is the past tense of the verb 'sing'? (_____)", "sang"), ("Choose the correct preposition: 'I am allergic ____ cats.' (to/in/with)", "to"),
    ("Correct the sentence: 'The book is laying on the table.' (_____)", "lying"),
    ("Which word is a pronoun: 'cat' or 'it'?", "it"),
    ("What is the plural form of 'child'?", "children"),
    ("Choose the correct form: 'She ____ (is/am/are) my best friend.'", "is"),
    ("Identify the conjunction in the sentence: 'I like both chocolate and vanilla ice cream.' (_____)", "and")
]
def quiz():
    count = 0
    marks = 0
    while count < len(quiz_questions):</pre>
        question, correct_answer = quiz_questions[count]
        answer = input(f"{question}? ").lower()
        if answer == correct_answer:
             print("Correct!")
            marks += 1
        else:
            print(f"The answer is {correct_answer!r}, not {answer!r}")
        count += 1
        if count < len(quiz_questions):</pre>
             print("To Continue press 1, To Exit press 2")
             choice = 0
            while choice not in [1, 2]:
                 try:
                     choice = int(input())
                 except ValueError:
                     print("Invalid choice. Please enter 1 or 2.")
             if choice == 2:
                 print("Thank you for playing!")
                 break
            else:
                 print("Next Question..!")
    print(f"You scored {marks} out of {len(quiz_questions)} questions.\n")
while True:
    quiz()
    play_again = input("Do you want to play again? (yes/no): ").lower()
    if play_again != 'yes':
        print("Thank you for playing. Goodbye!")
        break
```

Welcome to the English Grammar Quiz! Test your knowledge of grammar with these questions. Type the correct answers and see how many you get right! Choose the correct form: 'She \_\_\_\_\_ (has/have) a new car.'? has Correct! To Continue press 1, To Exit press 2 Next Question..! Identify the type of pronoun in the sentence: 'They gave her the award.' (Personal/Relative/Indefinite)? personal The answer is 'indefinite', not 'personal' To Continue press 1, To Exit press 2 Thank you for playing! You scored 1 out of 10 questions.

Do you want to play again? (yes/no): no

Thank you for playing. Goodbye!

In [ ]:

Thank you