```
# Scope of a variable
# lifetime of a variable


# global variable
var = "Python"
def function():
    # local variable
    var1 = "Hello"
    print(var1)
    print(var)


function()
```

```
Hello
Python
```

```
var
```

```
'Python'
```

```
def f1():
    global v1
    v1 = 90
    print(v1)



v1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_13956\2237608170.py in <module>
----> 1 v1

NameError: name 'v1' is not defined
```

```
f1()
```

```
90
```

```
v1
```

```
90
```

```
v1
```

```
90
```

Start coding or generate with AI.

```
expenses = []
next_id = 1


def add_Expense(date, amount, category, description):
    global next_id
    expense = {
        'id' : next_id,
        'date' : date,
        'amount' : amount,
        'category' : category,
        'description' : description
    }
    expenses.append(expense)
    next_id += 1
    print("Expense added successfully!")


def view_expenses():
    if not expenses:
        print("No expense recorded.")
```

```
            print("No expense recorded.")
            return
        filter_choice = input("Do you want to filter by (1) Date or (2) Category? (Enter '1', '2' or '0' for none):")

        if filter_choice == '1':
            filter_date = input('Enter the date to filter (YYYY-MM-DD):')
            filtered_expenses = [expense for expense in expenses if expense['date'] == filter_date]
        elif filter_choice == '2':
            filter_category = input('Enter the category to filter:')
            filtered_expenses = [expense for expense in expenses if expense['category'].lower() == filter_category.lower()]

        else:
            filtered_expenses = expenses

        if not filtered_expenses:
            print("No expenses found for the given filter.")


        for expense in filtered_expenses:
            print(f"ID : {expense['id']}, Date : {expense['date']}, Amount : {expense['amount']}, Category : {expense['category']}, Description :

    def delete_expense(expense_id):
        index = 0
        for i in expenses:
            if i['id'] == expense_id:
                expenses.pop(index)
                print("Expense deleted successfully!")
                return
            index += 1
        print("Given expense id is not present.")



    add_Expense('2024-10-09',230,'Food','Evening Snacks')
```

```
Expense added successfully!
```

```
    add_Expense('2024-10-08',130,'Study','Notebook & Pen')
```

```
Expense added successfully!
```

```
    delete_expense(1)
```

```
Expense deleted successfully!
```

```
    view_expenses()
```

```
Do you want to filter by (1) Date or (2) Category? (Enter '1', '2' or '0' for none):0
ID : 2, Date : 2024-10-08, Amount : 130, Category : Study, Description : Notebook & Pen
```

```
    Start coding or generate with AI.


    ages = [24,25,43,23,45,67,45,34,56,73,23]


    minimum_age = ages[0]
    maximum_age = ages[0]

    for i in ages:
        if i < minimum_age:
            minimum_age = i
        if i > maximum_age:
            maximum_age = i

    print("Minimum age:",minimum_age)
    print("Maximum age:",maximum_age)
```

```
Minimum age: 23
Maximum age: 73
```

```
    Start coding or generate with AI.


    Start coding or generate with AI.
```