

1. Monthly Bill Tracker

Calculate the total of monthly bills. Given a list of bills like [1500, 2000, 3000], iterate through the list. Print each bill amount and the total at the end

```
#variable

bills = [1500, 2000, 3000]
total = 0

for i in bills:
    total += i
print(bills)
print(f"The total of the bills are {total}.")

[1500, 2000, 3000]
The total of the bills are 6500.
```

2. School Attendance Simulate attendance tracking. Given a list of student names like ["John", "Mary", "Alex"], print each name followed by "Present."

```
#variable

students = ["John", "Mary", "Alex"]

for i in students:
    print(i + " Present")

John Present
Mary Present
Alex Present
```

3. Salary Distribution

Distribute bonuses to employees. Given a dictionary {"John": 5000, "Mary": 6000}, iterate through the dictionary. Print each employee's name and their bonus

```
#variable

dict1 = {"John": 5000, "Mary": 6000, "Alex": 4000, "Travis": 3000, "Kendrick": 7000}

for i,j in dict1.items():
    print(i,j)

John 5000
Mary 6000
Alex 4000
```

Travis 3000
Kendrick 7000

4. Grade Report

Calculate grades for students.

Given a list of scores [85, 92, 76, 61], assign grades:

= 90: A = 80: B = 70: C < 70: F Print the grades for each student

#variables

```
marks = [85, 92, 76, 61]
```

```
for i in marks:
    if i >= 90:
        print("Your grade is A.")
    elif i >= 80:
        print("Your grade is B.")
    elif i >= 70:
        print("Your grade is C.")
    else:
        print("Your grade is F.")
```

```
Your grade is B.
Your grade is A.
Your grade is C.
Your grade is F.
```

5. Book Availability

Check if a book is in a library. Given a list of books like ["Python Basics", "Data Science"], ask the user for a title. Print "Available" if the title is in the list, or "Not Available" otherwise

#variable

```
enter_book = str(input("Enter Book Name: "))
books_available = ["Python Basics", "Data Science", "Machine Learning", "Deep Learning"]

for book in books_available:
    if enter_book in books_available:
        print("Available")
        break
    else:
        print("Not Available")
        break
```

Enter Book Name: Data Science

Available

6. Temperature Analysis Analyze daily temperatures for a week. Given a list [30, 32, 28, 35, 29], find the highest and lowest temperatures using a loop.

```
#variable
week_temp = [30, 32, 28, 35, 29, 33, 31]

for temp in week_temp:
    print("Highest Temperature:", max(week_temp), "Lowest Temperature:", min(week_temp))
    break
```

Highest Temperature: 35 Lowest Temperature: 28

7. Inventory Management

Check for low-stock items in a store. Given a dictionary {"Apples": 5, "Bananas": 20}, print items with quantities below 10.

```
#variable
inventory = {"Apple":5, "Banana":20, "Orange":20, "Strawberry":50, "Guava":9}

for item,value in inventory.items():
    if value < 10:
        print(f"{item} is lower than 10 which is {value} in inventory.")
```

Apple is lower than 10 which is 5 in inventory.
Guava is lower than 10 which is 9 in inventory.

8. Flight Seat Booking

Check booked and available seats. Given a list of seats [1, 2, 3, 4] and booked seats [2, 4], print "Booked" or "Available" for each seat

```
#variable
total_seats = [1,2,3,4,5]
booked_seats = [2,4]

for seat in total_seats:
    if seat in booked_seats:
        print(f"Seat {seat} is Booked")
    else:
        print(f"Seat {seat} is Available.")
```

```
Seat 1 is Available.  
Seat 2 is Booked  
Seat 3 is Available.  
Seat 4 is Booked  
Seat 5 is Available.
```

9. Savings Interest Calculator

Calculate weekly interest for a savings account. Given a list of daily balances [5000, 5200, 5300], calculate daily interest at 0.05% and display the total interest

```
#variable  
daily_balance = [5000, 5200, 5300]  
daily_interest = 0.0005  
weekly_interest = daily_interest * 7  
  
for i in daily_balance:  
    print(f"Your total amount with interest is {i+weekly_interest}")  
  
Your total amount with interest is 5000.0035  
Your total amount with interest is 5200.0035  
Your total amount with interest is 5300.0035
```

10. Customer Feedback Analyzer

Analyze feedback for keywords. Given a list of comments like ["Great service", "Poor product"], print comments containing the word "service".

```
#variable  
feedbacks = ["great service", "excelelect product", "average service",  
"poor product"]  
word = "service"  
  
for feedback in feedbacks:  
    if "service" in feedback:  
        print(feedback)  
  
great service  
average service
```