

My Python Course Notes

Structured Revision for Every Lesson

Siddharth Patel
HTW Berlin

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1 If Else – Decision Making in Python

Q1: Greeting by First Name

Write a program that asks the user for their first name. If the user's name is Marie or Otto, the program should print Hello Marie! or Hello Otto! respectively. Otherwise, nothing should be printed. Leading and trailing spaces should be ignored. The input and output must match the following examples exactly.

Example 1:

First name: Marie
Hello Marie!

Example 2:

First name: Karl
(No output expected)

Q1 – Solution

```
1 name = input("First name: ").strip()
2
3 if name == "Marie":
4     print("Hello Marie!")
5 elif name == "Otto":
6     print("Hello Otto!")
```

Q2: Compare Two Floating-Point Numbers

Write a program that asks the user to input two floating-point numbers, a and b. Use an if-else statement to determine and print the larger number.

Example:

a = 10
b = 11.2
The larger number is: 11.2

Q2 – Solution

```
1 a = float(input("a = "))
2 b = float(input("b = "))
3
4 if a > b:
5     print("The larger number is:", a)
6 else:
7     print("The larger number is:", b)
```

Q3: Compare with a Single if Statement

Solve the previous task again, but this time using only a single if statement without else. The input and output must match the example exactly.

Example:

a = 10

b = 11.2

The larger number is: 11.2

Q3 – Solution

```
1 a = float(input("a = "))
2 b = float(input("b = "))
3
4 if b > a:
5     print("The larger number is:", b)
6 if a > b:
7     print("The larger number is:", a)
```

Q4: Largest of Three Numbers

Write a program that asks the user to input three floating-point numbers: a, b, and c. Then determine and print the largest number.

Example:

a = 10

b = 11.2

c = -12.31

The largest number is: 11.2

Q4 – Solution

```
1 a = float(input("a = "))
2 b = float(input("b = "))
3 c = float(input("c = "))
4
5 if a >= b and a >= c:
6     print("The largest number is:", a)
7 elif b >= a and b >= c:
8     print("The largest number is:", b)
9 else:
10    print("The largest number is:", c)
```

Q5: Age-Based Classification (if-elif-else)

Write a program that asks the user for their age and prints a message based on the following rules:

- Under 18: You are a minor.
- Between 18 and 65: You are an adult.
- 66 and older: You are of retirement age.

Example 1:

Please enter your age: 23

You are an adult.

Example 2:

Please enter your age: 13

You are a minor.

Q5 – Solution

```
1 age = int(input("Please enter your age: "))
2
3 if age < 18:
4     print("You are a minor.")
5 elif age <= 65:
6     print("You are an adult.")
7 else:
8     print("You are of retirement age.")
```

Q6: Age-Based Classification with Extended Range

Write a program similar to Q5 but with the following additional condition:

- Under 18: You are a minor.
- Between 18 and 65: You are an adult.
- Between 66 and 99: You are of retirement age.
- 100 or older: You are in the Methuselah age group.

Example:

Please enter your age: 101

You are in the Methuselah age group.

Q6 – Solution

```
1 age = int(input("Please enter your age: "))
2
3 if age < 18:
4     print("You are a minor.")
5 elif age <= 65:
6     print("You are an adult.")
7 elif age <= 99:
8     print("You are of retirement age.")
9 else:
10    print("You are in the Methuselah age group.")
```

Q7: Min and Max from Input Without Using min/max

Write a program that asks the user to enter a list of integers separated by commas. Then determine and print the smallest and largest number without using the built-in min() or max() functions.

Example:

Enter numbers: 1, 3, 7, -4, 9, 0, 2

Smallest number: -4

Largest number: 9

Q7 – Solution

```
1 raw_input = input("Enter numbers: ")
2 numbers = [int(x.strip()) for x in raw_input.split(",")]
3
4 smallest = numbers[0]
5 largest = numbers[0]
6
7 for num in numbers[1:]:
8     if num < smallest:
9         smallest = num
10    if num > largest:
11        largest = num
12
13 print("Smallest number:", smallest)
14 print("Largest number:", largest)
```

2 Match Statement – Pattern Matching in Python

Q1: Weekday Abbreviation to Full Name

Write a program that asks the user to input a weekday abbreviation (2 letters), such as Mo, Di, Mi, etc. The program should return the full weekday name. If the input is invalid, print Error. Use a match statement to solve this.

Example 1:

Input: Mo

Monday

Example 2:

Input: Mon

Error

Q1 – Solution

```
1 day = input("Input: ").strip()
2
3 match day:
4     case "Mo":
5         print("Monday")
6     case "Di":
7         print("Tuesday")
8     case "Mi":
9         print("Wednesday")
10    case "Do":
11        print("Thursday")
12    case "Fr":
13        print("Friday")
14    case "Sa":
15        print("Saturday")
16    case "So":
17        print("Sunday")
18    case _:
19        print("Error")
```

Q2: Month Abbreviation to Season

Write a program that asks the user to enter a three-letter month abbreviation (e.g., Jan, Feb). The input should be case-insensitive. The program should return the corresponding season:

- Spring: Mar–May
- Summer: Jun–Aug
- Autumn: Sep–Nov
- Winter: Dec–Feb

Invalid input should return Error. Use a match statement with as few case blocks as possible (5 total).

Example:

Input: Feb

Winter

Q2 – Solution

```
1 month = input("Input: ").strip().lower()
2
3 match month:
4     case "mar" | "apr" | "may":
5         print("Spring")
6     case "jun" | "jul" | "aug":
7         print("Summer")
8     case "sep" | "oct" | "nov":
9         print("Autumn")
10    case "dec" | "jan" | "feb":
11        print("Winter")
12    case _:
13        print("Error")
```

Q3: Rewrite if-elif-else Using match

Given the following code:

```
1 val = int(input('Value: '))
2 if val >= 0 and val < 4:
3     print('Small number')
4 elif val < 6:
5     print('Medium number')
6 elif val == 7 or val == 9:
7     print('Special number')
8 else:
9     print('Some other number')
```

Rewrite the program using a match statement instead of if-elif-else to achieve the same logic and output.

Q3 – Solution

```
1 val = int(input("Value: "))
2
3 match val:
4     case 0 | 1 | 2 | 3:
5         print("Small number")
6     case 4 | 5:
7         print("Medium number")
8     case 7 | 9:
9         print("Special number")
10    case _:
11        print("Some other number")
```

3 The for Loop – Counting, Iteration, and Containers

Q1: Count from 1 to a User-Defined Value

Write a program that asks the user to input a number. Then use a for loop to print all numbers from 1 to the entered value.

Example:

Last count value: 4

1
2
3
4

Q1 – Solution

```
1 n = int(input("Last count value: "))
2 for i in range(1, n + 1):
3     print(i)
```

Q2: Count Down to 1

Repeat the previous task, but count down from the input value to 1, using a step of -1.

Example:

Last count value: 4

4
3
2
1

Q2 – Solution


```
1 n = int(input("Last count value: "))
2 for i in range(n, 0, -1):
3     print(i)
```

Q3: Factorial with a for Loop

Write a program that calculates the factorial of a user-given number n. Use a for loop starting at 1.

Example:

Please enter n: 4

n! = 24

Q3 – Solution

```
1 n = int(input("Please enter n: "))
2 factorial = 1
3 for i in range(1, n + 1):
4     factorial *= i
5 print("n! =", factorial)
```

Q4: Count Occurrences of a Character in a String

Write a program that asks the user for a string and counts how many times the letter e appears using a for loop.

Example:

Input: Das Leben ist schoen!

Number of e: 3

Q4 – Solution

```
1 text = input("Input: ")
2 count = 0
3 for char in text:
4     if char == 'e':
5         count += 1
6 print("Number of e:", count)
```

Q5: Sum All Elements in a List

Given the list:

```
intlist = [1, 4, 3, 7, -5, 3, 5]
```

Write a program that uses a for loop to sum all elements and print the result.

Output:

Sum: 18

Q5 – Solution

```
1 intlist = [1, 4, 3, 7, -5, 3, 5]
2 total = 0
3 for number in intlist:
4     total += number
5 print("Sum:", total)
```

4 Functions – Parameters, Return Values, and Reusability

Q1: Average of Three Numbers

Write a function that accepts three floating-point numbers as parameters and returns their average. Add a main program that asks the user to enter three values and then calls the function and displays the result.

Example:

```
a = 12
b = 18
c = 6
Average = 12
```

Q1 – Solution

```
1 def average(a, b, c):
2     return (a + b + c) / 3
3
4 a = float(input("a = "))
5 b = float(input("b = "))
6 c = float(input("c = "))
7
8 result = average(a, b, c)
9 print("Average =", int(result))
```

Q2: Factorial Function

Write a function that receives an integer n as a parameter and returns $n!$. Add a main program that gets input from the user and prints the result.

Example:

```
n = 4
n! = 24
```

Q2 – Solution

```
1 def factorial(n):
2     result = 1
3     for i in range(1, n + 1):
4         result *= i
5     return result
```

```
6
7 n = int(input("n = "))
8 print("n! =", factorial(n))
```

Q3: Area and Perimeter of Rectangle

Write a function `rect(a, b)` that receives two sides of a rectangle and returns the area and perimeter. Add a main program that takes inputs and prints both results.

Example:

```
a = 4
b = 3
Area = 12
Perimeter = 14
```

Q3 – Solution

```
1 def rect(a, b):
2     area = a * b
3     perimeter = 2 * (a + b)
4     return area, perimeter
5
6 a = int(input("a = "))
7 b = int(input("b = "))
8
9 area, perimeter = rect(a, b)
10 print("Area =", area)
11 print("Perimeter =", perimeter)
```

Q4: Count Vowels Using Function

Write a function that accepts a string `s` and a letter `letter`, and returns how often that letter appears (case-insensitive). In the main program, prompt for a string and print the number of occurrences of a, e, i, o, u.

Q4 – Solution

```
1 def count_letter(s, letter):
2     s = s.lower()
3     letter = letter.lower()
4     count = 0
5     for char in s:
6         if char == letter:
7             count += 1
8     return count
9
10 s = input("Input: ")
11 for vowel in "aeiou":
12     print(f"{vowel}: {count_letter(s, vowel)}")
```

Example:

Input: Die Summe der Kathetenquadrate ist Gleich dem Hypotenusenquadrat

a: 5
e: 10
i: 3
o: 1
u: 4

Q5: Custom join() Implementation

Write a function myJoin(lst, sep) that replicates the behavior of join() without actually using it. It should combine list elements into a single string, separated by sep.

Test Code:

```
1  mylist = ['Wir', 'müssen', 'uns', 'Sisyphos', 'als', 'einen', 'glücklichen', 'Menschen',  
    ↪ 'vorstellen']  
2  mystring = myJoin(mylist, '-')  
3  print(mystring)
```

Expected Output:

Wir-müssen-uns-Sisyphos-als-einen-glücklichen-Menschen-vorstellen

Q5 – Solution

```
1  def myJoin(lst, sep):  
2      result = ""  
3      for i in range(len(lst)):  
4          result += lst[i]  
5          if i != len(lst) - 1:  
6              result += sep  
7      return result  
8  
9  mylist = ['Wir', 'müssen', 'uns', 'Sisyphos', 'als', 'einen', 'glücklichen', 'Menschen',  
    ↪ 'vorstellen']  
10 mystring = myJoin(mylist, '-')  
11 print(mystring)
```

Q6: Recursive Sum Function

Write a recursive function total(n) that returns the sum from 1 to n without using loops. Include a main program to prompt the user and show the result.

Example:

n = 4
Sum = 10

Q6 – Solution

```
1  def total(n):  
2      if n <= 1:
```

```
3     return n
4     return n + total(n - 1)
5
6 n = int(input("n = "))
7 print("Sum =", total(n))
```

5 The while Loop – Manual Iteration and Termination Conditions

Q1: Rewrite a for-loop as a while-loop (0 to 4)

Given the following for-loop:

```
1     for i in range(5):
2         print(i)
```

Rewrite it using a while-loop to produce the same output:

Expected Output:

```
0
1
2
3
4
```

Q1 – Solution

```
1 i = 0
2 while i < 5:
3     print(i)
4     i += 1
```

Q2: Rewrite a for-loop with start, stop, step

Given the following for-loop:

```
1     for i in range(5, 13, 2):
2         print(i)
```

Rewrite it using a while-loop to produce the same output:

Expected Output:

```
5
7
9
11
```

Q2 – Solution

```
1 i = 5
2 while i < 13:
3     print(i)
4     i += 2
```

Q3: Capitalize User Input Until “Ende”

Write a program that reads user input, converts it to uppercase, and prints it. The loop should end when the user enters ende (case-insensitive). Use a while-loop.

Example:

Input: hallo welt

Output: HALLO WELT

Input: Noch ein Test

Output: NOCH EIN TEST

Input: Ende

Q3 – Solution

```
1 while True:
2     text = input("Input: ").strip()
3     if text.lower() == "ende":
4         break
5     print("Output:", text.upper())
```

Q4: Sum Until Empty Input

Write a program that asks the user to input integers, one at a time, inside a while-loop. When the user enters an empty line, stop and display the sum. Ignore extra spaces.

Example:

Input: 1

Input: 55

Input: 7

Input:

Sum: 63

Q4 – Solution

```
1 total = 0
2
3 while True:
4     line = input("Input: ").strip()
5     if line == "":
6         break
7     total += int(line)
```

```
8
9 print("Sum:", total)
```

Q5: Sum from Multi-Value Inputs with Nested Loops

Write a program that allows the user to input multiple integers in a single line (space-separated). Continue until an empty line is entered, then print the total sum. Use only while-loops.

Example:

Input: 1 3 5
Input: 7 8
Input: 4
Input:
Sum: 28

Q5 – Solution

```
1 total = 0
2
3 while True:
4     line = input("Input: ").strip()
5     if line == "":
6         break
7     for num in line.split():
8         total += int(num)
9
10 print("Sum:", total)
```

6 Importing Modules and Libraries – Using Built-in Functionality

Q1: Simulating Dice Rolls with `random.randint()`

Write a program that asks the user how many times a die should be rolled. Then generate that many random integers between 1 and 6 using `random.randint()`. Make sure to call `random.seed(0)` at the beginning so that the sequence is repeatable.

Example:

Rolls: 3
4
4
1

Q1 – Solution

```
1 import random
2
3 random.seed(0)
4 rolls = int(input("Rolls: "))
```

```
5 for _ in range(rolls):
6     print(random.randint(1, 6))
```

Q2: Random Word Selection Using from ... import

Write a program that imports only seed() and choice() from the random module. Use seed(0), then ask the user to enter a sentence. Split the sentence into words and use choice() to randomly pick one word to display.

Example:

Input: red yellow blue
blue

Q2 – Solution

```
1 from random import seed, choice
2
3 seed(0)
4 sentence = input("Input: ")
5 words = sentence.split()
6 print(choice(words))
```

Q3: Full Access to All random Functions

Given the following main program:

```
1 seed(0)
2 print(randint(1, 10))
3 print(randrange(1, 10))
4 print(random())
5 print(choice(['red', 'yellow', 'green']))
```

Complete the code so that all random functions are accessible directly, without using the random. prefix.

Q3 – Solution

```
1 from random import *
2
3 seed(0)
4 print(randint(1, 10))
5 print(randrange(1, 10))
6 print(random())
7 print(choice(['red', 'yellow', 'green']))
```


7 Lists and Tuples – Access, Operations, and Manual Algorithms

Q1: Accessing List Elements

Given the list:

```
1 lst = [1, 3, 9, -11, 2, 0, 21]
```

Access and print the second and last element of the list. Then create a new list containing the 3rd, 4th, and 5th elements and print it.

Expected Output:

```
3
21
[9, -11, 2]
```

Q1 – Solution

```
1 lst = [1, 3, 9, -11, 2, 0, 21]
2
3 print(lst[1])          # second element
4 print(lst[-1])         # last element
5 print(lst[2:5])        # 3rd, 4th, 5th element as sublist
```

Q2: Element-wise Addition of Equal-Length Lists

Given:

```
1 lst1 = [1, 3, 9, -11, 2, 0, 21]
2 lst2 = [2, 1, -2, 0, 3, -2, -11]
```

Write a program that adds the lists element by element and stores the result in a new list.

Expected Output:

Result: [3, 4, 7, -11, 5, -2, 10]

Q2 – Solution

```
1 lst1 = [1, 3, 9, -11, 2, 0, 21]
2 lst2 = [2, 1, -2, 0, 3, -2, -11]
3
4 result = []
5 for i in range(len(lst1)):
6     result.append(lst1[i] + lst2[i])
7
8 print("Result:", result)
```

Q3: Element-wise Addition with Unequal Lengths

Now allow lst1 and lst2 to have different lengths. When that's the case, append the extra elements from the longer list to the result.

```
1 lst1 = [1, 3, 9, -11, 2, 0, 21]
2 lst2 = [2, 1, -2, 0, 3, -2, -11, 4, 8]
```

Expected Output:

Result: [3, 4, 7, -11, 5, -2, 10, 4, 8]

Q3 – Solution

```
1 lst1 = [1, 3, 9, -11, 2, 0, 21]
2 lst2 = [2, 1, -2, 0, 3, -2, -11, 4, 8]
3
4 result = []
5 min_len = min(len(lst1), len(lst2))
6
7 for i in range(min_len):
8     result.append(lst1[i] + lst2[i])
9
10 if len(lst1) > len(lst2):
11     result += lst1[min_len:]
12 else:
13     result += lst2[min_len:]
14
15 print("Result:", result)
```

Q4: Convert User Input to List of Integers

Prompt the user to enter numbers in a single line. Convert them into integers and store them in a list.

Example:

Input: 1 2 3 4 5

Result: [1, 2, 3, 4, 5]

Q4 – Solution

```
1 user_input = input("Input: ")
2 numbers = [int(x) for x in user_input.split()]
3 print("Result:", numbers)
```

Q5: Sort List Without Using sort() or sorted()

Given the list:

```
1 lst = [1, 3, 9, -11, 2, 0, 21]
```

Write a program that sorts the list in ascending order using your own sorting algorithm (e.g., selection or bubble sort).

Expected Output:

Result: [-11, 0, 1, 2, 3, 9, 21]

Q5 – Solution

```
1 lst = [1, 3, 9, -11, 2, 0, 21]
2
3 for i in range(len(lst)):
4     min_index = i
5     for j in range(i + 1, len(lst)):
6         if lst[j] < lst[min_index]:
7             min_index = j
8     lst[i], lst[min_index] = lst[min_index], lst[i]
9
10 print("Result:", lst)
```

8 Dictionaries – Key-Value Data Storage and Access

Q1: Loop Through Dictionary Keys and Values

Given the dictionary:

```
1 tab = {'Mo': 1, 'Di': 2, 'Mi': 3, 'Do': 4, 'Fr': 5, 'Sa': 6, 'So': 7}
```

Write a program that prints each key and its corresponding value on a separate line.

Expected Output:

Mo: 1
Di: 2
Mi: 3
Do: 4
Fr: 5
Sa: 6
So: 7

Q1 – Solution

```
1 tab = {'Mo': 1, 'Di': 2, 'Mi': 3, 'Do': 4, 'Fr': 5, 'Sa': 6, 'So': 7}
2
3 for key in tab:
4     print(f"{key}: {tab[key]}")
```

Q2: Check If a Key Exists in Dictionary

Using the same dictionary `tab`, prompt the user for input. If the input is a key in the dictionary, print its value. Otherwise, print "Unknown word".

Example 1:

Input: `Mi`
3

Example 2:

Input: `Mittwoch`
Unknown word

Q2 – Solution

```
1 tab = {'Mo': 1, 'Di': 2, 'Mi': 3, 'Do': 4, 'Fr': 5, 'Sa': 6, 'So': 7}
2
3 word = input("Input: ")
4 if word in tab:
5     print(tab[word])
6 else:
7     print("Unknown word")
```

Q3: Count Character Frequency Using Dictionary

Prompt the user to enter a sentence. Use a dictionary to count the number of times each character appears. Output the dictionary.

Example:

Input: `Eins und Eins ist Zwei`
Result: `{ 'E': 2, 'i': 4, 'n': 3, 's': 3, ' ': 4, 'u': 1, 'd': 1, 't': 1, 'Z': 1, 'w': 1, 'e': 1 }`

Q3 – Solution

```
1 text = input("Input: ")
2 count_dict = {}
3
4 for char in text:
5     if char in count_dict:
6         count_dict[char] += 1
7     else:
8         count_dict[char] = 1
9
10 print("Result:", count_dict)
```

Q4: Interactive Dictionary with Update and Lookup

Write a program that starts with an empty dictionary `tab`. In a loop, prompt the user for input:

- If the input contains a single word and the key exists in `tab`, print the value.

- If the key doesn't exist, print "Unknown word".
- If the input contains two words, insert the first as key and second as value. Print "New entry".
- If the input is Ende, stop and print the dictionary.

Example:

Input: Hallo
Unknown word
Input: Hallo Welt
New entry
Input: Hallo
Welt
Input: Ende
{'Hallo': 'Welt'}

Q4 – Solution

```
1 tab = {}
2
3 while True:
4     user_input = input("Input: ").strip()
5
6     if user_input == "Ende":
7         print(tab)
8         break
9
10    parts = user_input.split()
11
12    if len(parts) == 1:
13        key = parts[0]
14        if key in tab:
15            print(tab[key])
16        else:
17            print("Unknown word")
18
19    elif len(parts) == 2:
20        key, value = parts
21        tab[key] = value
22        print("New entry")
```

9 Sets – Unique Collections and Set Operations

Q1: Collect Unique Words Until “Ende”

Write a program that asks the user to enter words in a loop. Store each word in a set. Stop when the user enters Ende. The word Ende should not be included in the set. After termination, print the resulting set.

Example:

Input: Hallo
Input: Berlin
Input: Hallo

Input: Welt
Input: Ende
{'Hallo', 'Welt', 'Berlin'}

Q1 – Solution

```
1 words = set()
2
3 while True:
4     entry = input("Input: ")
5     if entry == "Ende":
6         break
7     words.add(entry)
8
9 print(words)
```

Q2: Remove Words from a Set

Given the set:

```
1 s = {'der', 'die', 'das', 'und', 'er', 'sie', 'es', 'du'}
```

Prompt the user for words. If the word is in the set, remove it and print Removed. If it's not in the set, print Not found. Stop on Ende and print the set.

Example:

Input: Hallo
Not found
Input: und
Removed
Input: und
Not found
Input: Ende
{'der', 'die', 'das', 'er', 'sie', 'es', 'du'}

Q2 – Solution

```
1 s = {'der', 'die', 'das', 'und', 'er', 'sie', 'es', 'du'}
2
3 while True:
4     word = input("Input: ")
5     if word == "Ende":
6         break
7     if word in s:
8         s.remove(word)
9         print("Removed")
10    else:
11        print("Not found")
12
13 print(s)
```

Q3: Intersection of Word Sets from Two Sentences

Prompt the user to enter two sentences. Split the sentences into words and store them in sets. Then compute and print the intersection.

Example:

Sentence 1: Der Löwe ist der Adler unter den Katzen

Sentence 2: Der Adler ist der Löwen unter den Piematzen

{'der', 'unter', 'ist', 'Der', 'den', 'Adler'}

Q3 – Solution

```
1 sentence1 = input("Sentence 1: ")
2 sentence2 = input("Sentence 2: ")
3
4 set1 = set(sentence1.split())
5 set2 = set(sentence2.split())
6
7 print(set1 & set2)
```

Q4: Union of Word Sets from Two Sentences

Same as Q3, but compute the union of the sets instead.

Example:

Sentence 1: Der Löwe ist der Adler unter den Katzen

Sentence 2: Der Adler ist der Löwen unter den Piematzen

{'Der', 'Katzen', 'der', 'Piematzen', 'Adler', 'den', 'Löwe', 'unter', 'Löwen', 'ist'}

Q4 – Solution

```
1 sentence1 = input("Sentence 1: ")
2 sentence2 = input("Sentence 2: ")
3
4 set1 = set(sentence1.split())
5 set2 = set(sentence2.split())
6
7 print(set1 | set2)
```

Q5: Difference – Words in First Sentence Only

Now compute the difference of the two sets: words that are in the first sentence but not in the second.

Example:

Sentence 1: Der Löwe ist der Adler unter den Katzen

Sentence 2: Der Adler ist der Löwen unter den Piematzen

{'Katzen', 'Löwe'}

Q5 – Solution

```
1 sentence1 = input("Sentence 1: ")
2 sentence2 = input("Sentence 2: ")
3
4 set1 = set(sentence1.split())
5 set2 = set(sentence2.split())
6
7 print(set1 - set2)
```