

## 7OOP – MIDTERM LAB TASK 1

### PART 1: Use Appropriate Escape Sequence ( \n, \t \b \..etc)

#### PROBLEM:

Item Description

Create a program that prints the following text:

```
Database Record
////////////////////
Name:      John Doe
Email:     john.doe@example.com
University: ABC University
```

Sample Output 1

```
Database Record
////////////////////
Name:      John Doe
Email:     john.doe@example.com
University: ABC University
```

#### SOURCE CODE:

```
# Part 1

print("Database Record")
print("////////////////////////////////////")
print("Name:\tJohn Doe")
print("Email:\tjohn.doe@example.com")
print("University:\tABC University")
```

#### SAMPLE OUTPUT:

```
C:\Users\COMLAB\PycharmProjects\demoC204\venv\Scripts\python.exe "C:\Users\COMLAB\PycharmProjects\demoC204\Lab Activity.py"
Database Record
////////////////////////////////////
Name:  John Doe
Email: john.doe@example.com
University: ABC University

Process finished with exit code 0
```

## PART 2: Using Placeholders for Email Details: Use appropriate type specifiers %, %d, %f etc... for this task

### PROBLEM:

#### Item Description

Write a program that prints the output below:

```
Dear John, I hope this email finds you well.  
I wanted to reach out and say hello.  
I hope you are doing well and enjoying your day.  
It's been a while since we last spoke, and I wanted to catch up with you.  
Let's plan to meet up soon and have a great time together!  
Subject: Greetings  
Sender: Jane  
Version: 1.2  
Discount: 10.50%  
Status: A  
Code: ABCD123  
Location: City XYZ  
Age: 30  
Company: ABC Corporation  
Website: www.example.com  
Phone: +1 123-456-7890  
Job Title: Software Engineer  
Department: Engineering
```

The program should use placeholders to present the information accurately.

### SOURCE CODE:

```
# Part 2  
  
name = "John"  
subject = "Greetings"  
sender = "Jane"  
version = 1.2  
discount = 10.50  
status = "A"  
code = "ABCD123"  
location = "City XYZ"  
age = 30  
company = "ABC Corporation"  
website = "www.example.com"  
phone = "+1 123-456-7890"  
job_title = "Software Engineer"  
department = "Engineering"  
  
print(f"""Dear {name}, I hope this email finds you well.  
I wanted to reach out and say hello.  
I hope you are doing well and enjoying your day.  
It's been a while since we last spoke, and I wanted to catch up with you.  
Let's plan to meet up soon and have a great time together!  
Subject: {subject}  
Sender: {sender}  
Version: {version:.1f}  
Discount: {discount:.2f}%  
Status: {status}  
Code: {code}  
Location: {location}  
Age: {age}  
Company: {company}  
Website: {website}  
Phone: {phone}  
Job Title: {job_title}  
Department: {department}  
""")
```

### SAMPLE OUTPUT:

```
C:\Users\COMLAB\PycharmProjects\demoC204\venv\Scripts\python.exe "C:\Users\COMLAB\PycharmProjects\demoC204\Lab Activity.py"
Dear John, I hope this email finds you well.
I wanted to reach out and say hello.
I hope you are doing well and enjoying your day.
It's been a while since we last spoke, and I wanted to catch up with you.
Let's plan to meet up soon and have a great time together!
Subject: Greetings
Sender: Jane
Version: 1.2
Discount: 10.50%
Status: A
Code: ABCD123
Location: City XYZ
Age: 30
Company: ABC Corporation
Website: www.example.com
Phone: +1 123-456-7890
Job Title: Software Engineer
Department: Engineering
```

## PART 3: Book Reservation; Accept User Input

### PROBLEM:

Write a program that asks the user to enter the title of a book (string), the author (string), the year of publication (int), the genre (string), the library (string), the member ID (string) and the return date (string). Print the entered values directly. The output should look like:

```
You have successfully reserved the book [Title] by [Author].
Year of Publication: [Year]
Genre: [Genre]
Library: [Library]
Member ID: [MemberID]
Return Date: [ReturnDate]
```

### SOURCE CODE:

```
# Part 3

title = input("Enter book title: ")
author = input("Enter author name: ")
year = int(input("Enter year of publication: "))
genre = input("Enter genre: ")
library = input("Enter library: ")
member_id = input("Enter member ID: ")
return_date = input("Enter return date: ")

print(f"""
You have successfully reserved the book [{title}] by [{author}].
Year of Publication: [{year}]
Genre: [{genre}]
Library: [{library}]
Member ID: [{member_id}]
Return Date: [{return_date}]
""")
```

### SAMPLE OUTPUT:

```
C:\Users\COMLAB\PycharmProjects\demoC204\venv\Scripts\python.exe "C:\Users\COMLAB\PycharmProjects\demoC204\Lab Activity.py"
Enter book title: Hamlet
Enter author name: William Shakespeare
Enter year of publication: 1599
Enter genre: Drama
Enter library: CCA Library
Enter member ID: 24-0152
Enter return date: 09-15-2025

You have successfully reserved the book [Hamlett] by [William Shakespeare].
Year of Publication: [1599]
Genre: [Drama]
Library: [CCA Library]
Member ID: [24-0152]
Return Date: [09-15-2025]
```

## PART 4: Day Identifier

### PROBLEM:

Item Description

Write a program that takes an integer (1-7) as input and prints the corresponding day of the week based on the following conditions:

- If the input is 1, print "Monday"
- If the input is 2, print "Tuesday"
- If the input is 3, print "Wednesday"
- If the input is 4, print "Thursday"
- If the input is 5, print "Friday"
- If the input is 6, print "Saturday"
- If the input is 7, print "Sunday"
- If the input is any other value, print "Invalid input"

Sample Output 1

```
Enter day: 1
Monday
```

Sample Output 2

```
Enter day: 4
Thursday
```

Sample Output 3

```
Enter day: 5
Friday
```

**SOURCE CODE:**

```
# Part 4

day = int(input("Enter day: "))

if day == 1:
    print("Monday")
elif day == 2:
    print("Tuesday")
elif day == 3:
    print("Wednesday")
elif day == 4:
    print("Thursday")
elif day == 5:
    print("Friday")
elif day == 6:
    print("Saturday")
elif day == 7:
    print("Sunday")
else:
    print("Invalid input")
```

**SAMPLE OUTPUT:**

```
C:\Users\COMLAB\PycharmProjects\demoC204\venv\Scripts\python.exe "C:\Users\COMLAB\PycharmProjects\demoC204\Lab Activity.py"
Enter day: 6
Saturday
```