

Midterm Lab Task 1.

**Problem 1. Use Appropriate Escape Sequence(\n, \t \b \ ..etc)
for the problem below**

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
```

Sample Code&Ouput:

```
main.py
1
2 print ('Database Record\n' + '-----\n'
3       + 'Name: \tSumbillo Jessie\n'
4       + 'Email:\tjohn.doe@example.com\n'
5       + 'University\tCity college of angeles\n')
6
```

```
Database Record
-----
Name:   Sumbillo Jessie
Email:  john.doe@example.com
University      City college of angeles

...Program finished with exit code 0
Press ENTER to exit console.
```

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

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.

main.py

```
1 # Program: Using Placeholders for Email Details
2
3 # Define variables
4 recipient = "John"
5 sender = "Jane"
6 subject = "Greetings"
7 version = 1.2
8 discount = 10.50
9 status = 4
10 code = "ABCD123"
11 location = "City XYZ"
12 age = 30
13 company = "ABC Corporation"
14 website = "www.example.com"
15 phone = "123-456-7890"
16 job_title = "Software Engineer"
17 department = "Engineering"
18
19 # Print formatted email using placeholders
20 print("""
21 Dear %s, I hope this email finds you well.
22 I wanted to reach out and say hello.
23 I hope you are doing well and enjoying your day.
24 It's been a while since we last spoke, and I wanted to catch up with you.
25 Let's plan to meet up soon and have a great time together!
26
27 Subject: %s
28 Sender: %s
29 Version: %.1f
30 Discount: %.2f%%
31 Status: %d
32 Code: %s
33 Location: %s
34 Age: %d
35 Company: %s
36 Website: %s
37 Phone: %s
38 Job Title: %s
39 Department: %s
40 """ % (recipient, subject, sender, version, discount, status, code, location, age,
41        company, website, phone, job_title, department))
42
```

```
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: 4
Code: ABCD123
Location: City XYZ
Age: 30
Company: ABC Corporation
Website: www.example.com
Phone: 123-456-7890
Job Title: Software Engineer
Department: Engineering
```

```
...Program finished with exit code 0
Press ENTER to exit console.[]
```

Problem 3. Book Reservation; Accept User Input

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]
```

Sample Output 1

```
Enter the book title: 1984
Enter the author: Orwell
Enter the year of publication: 1949
Enter the genre: Dystopian
Enter the library: Central
Enter your member ID: 12345
Enter the return date: 2023-07-10
You have successfully reserved the book '1984' by Orwell.
Year of Publication: 1949
Genre: Dystopian
Library: Central
Member ID: 12345
Return Date: 2023-07-10
```

Sample Output 2

```
Enter the book title: Mockingbird
Enter the author: Lee
Enter the year of publication: 1960
Enter the genre: Fiction
Enter the library: Westside
Enter your member ID: 67890
Enter the return date: 2023-06-28
You have successfully reserved the book 'Mockingbird' by Lee.
Year of Publication: 1960
Genre: Fiction
Library: Westside
Member ID: 67890
Return Date: 2023-06-28
```

Sample Code&Output:

```
main.py
1  # Program: Book Reservation - Accept User Input
2
3  # Ask the user for input
4  title = input("Enter the book title: ")
5  author = input("Enter the author: ")
6  year = int(input("Enter the year of publication: "))
7  genre = input("Enter the genre: ")
8  library = input("Enter the library: ")
9  member_id = input("Enter your member ID: ")
10 return_date = input("Enter the return date (YYYY-MM-DD): ")
11
12 # Display the reservation details
13 print("\nYou have successfully reserved the book '%s' by %s." % (title, author))
14 print("Year of Publication: %d" % year)
15 print("Genre: %s" % genre)
16 print("Library: %s" % library)
17 print("Member ID: %s" % member_id)
18 print("Return Date: %s" % return_date)
19
```

```
input
Enter the book title: Rial
Enter the author: Rizal
Enter the year of publication: 009
Enter the genre: Ewan ko din
Enter the library: CCA lib
Enter your member ID: Jess pogi
Enter the return date (YYYY-MM-DD): 2005 12 12

You have successfully reserved the book 'Rial' by Rizal.
Year of Publication: 9
Genre: Ewan ko din
Library: CCA lib
Member ID: Jess pogi
Return Date: 2005 12 12

...Program finished with exit code 0
Press ENTER to exit console.
```

Problem 4. Day Identifier

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
```

Sample Code&Output:

```
main.py
1  # Program: Day Identifier
2
3  # Take input from the user
4  day = int(input("Enter day: "))
5
6  # Identify the day using if-elif-else
7  if day == 1:
8      print("Monday")
9  elif day == 2:
10     print("Tuesday")
11 elif day == 3:
12     print("Wednesday")
13 elif day == 4:
14     print("Thursday")
15 elif day == 5:
16     print("Friday")
17 elif day == 6:
18     print("Saturday")
19 elif day == 7:
20     print("Sunday")
21 else:
22     print("Invalid input")
23
```

```
Enter day: Tuesday
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```