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ACT - C205

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
```

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.

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
```

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
```

Source Code

main.py	Output
<pre>1 print("Database Record") 2 print("//////////////////////////////// \\\\\\\") 3 print("Name:\t\tJohn Doe") 4 print("Email:\t\tjohn.doe@example.com") 5 print("University:\tABC University") 6</pre>	<pre>Database Record //////////////////////////////// Name: John Doe Email: john.doe@example.com University: ABC University === Code Execution Successful ===</pre>

```
main.py  Run
1 name = "John"
2 sender = "Jane"
3 version = 1.2
4 discount = 10.5
5 status = "A"
6 code = "ABCD123"
7 location = "City XYZ"
8 age = 30
9 company = "ABC Corporation"
10 website = "www.example.com"
11 phone = "+1 123-456-7890"
12 job_title = "Software Engineer"
13 department = "Engineering"
14
15 print("""Dear %s, I hope this email finds you
    well.
16 I wanted to reach out and say hello.
17 I hope you are doing well and enjoying your day.
18 It's been a while since we last spoke, and I
    wanted to catch up with you.
19 Let's plan to meet up soon and have a great time
    together!
20 Subject: Greetings
21 Sender: %s
22 Version: %.1f
23 Discount: %.2f%%
24 Status: %s
25 Code: %s
26 Location: %s
27 Age: %d
28 Company: %s
29 Website: %s
30 Phone: %s
31 Job Title: %s
32 Department: %s"" % (name, sender, version,
    discount, status, code, location, age,
    company, website, phone,
    job_title, department))
34
```

Output Clear

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

=== Code Execution Successful ===

```
main.py  Run
1 title = input("Enter the book title: ")
2 author = input("Enter the author: ")
3 year = int(input("Enter the year of publication
    : "))
4 genre = input("Enter the genre: ")
5 library = input("Enter the library: ")
6 member_id = input("Enter your member ID: ")
7 return_date = input("Enter the return date: ")
8
9 print(f"\nYou have successfully reserved the
    book '{title}' by {author}.")
10 print(f"Year of Publication: {year}")
11 print(f"Genre: {genre}")
12 print(f"Library: {library}")
13 print(f"Member ID: {member_id}")
14 print(f"Return Date: {return_date}")
```

Output	main.py
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 === Code Execution Successful ===	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 === Code Execution Successful ===

main.py	Output
<pre>1 day = int(input("Enter day: ")) 2 3 - if day == 1: 4 print("Monday") 5 - elif day == 2: 6 print("Tuesday") 7 - elif day == 3: 8 print("Wednesday") 9 - elif day == 4: 10 print("Thursday") 11 - elif day == 5: 12 print("Friday") 13 - elif day == 6: 14 print("Saturday") 15 - elif day == 7: 16 print("Sunday") 17 - else: 18 print("Invalid input")</pre>	Enter day: 7 Sunday === Code Execution Successful ===

Output	Output
Enter day: 1 Monday	Enter day: 3 Wednesday
=== Code Execution Successful ===	=== Code Execution Successful ===