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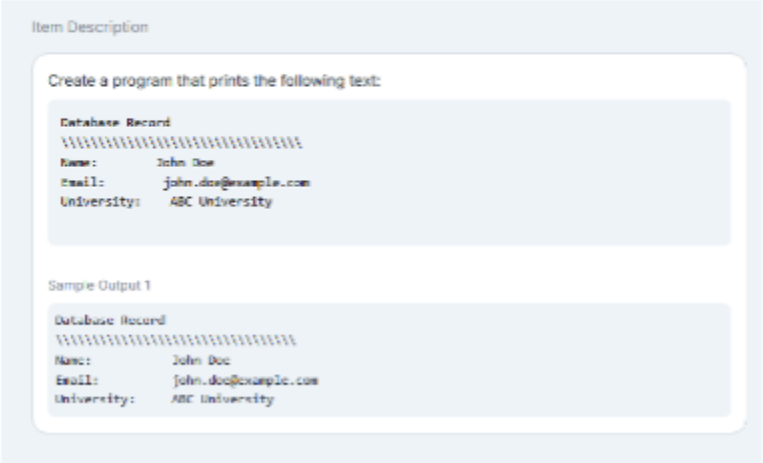
C205 - ACT

Problem 1. Use Appropriate Escape Sequence(\n, \t \b \ ..etc)

for the problem below



Main

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

Output

```
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.

Main

main.py

Share Run

```
1  name = "John"
2  sender = "Jane"
3  version = 1.2
4  discount = 19.5
5  status = 4
6  code = "ABC123"
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." % name)
16 print("I wanted to reach out and say hello.")
17 print("I hope you are doing well and enjoying your day.")
18 print("It's been a while since we last spoke, and I wanted to catch up with you.")
19 print("Let's plan to meet up soon and have a great time together!\n")
20
21 print("Subject: Greetings")
22 print("Sender: %s" % sender)
23 print("Version: %.1f" % version)
24 print("Discount: %.2f%%" % discount)
25 print("Status: %d" % status)
26 print("Code: %s" % code)
27 print("Location: %s" % location)
28 print("Age: %d" % age)
29 print("Company: %s" % company)
30 print("Website: %s" % website)
31 print("Phone: %s" % phone)
32 print("Job Title: %s" % job_title)
33 print("Department: %s" % department)
```

Output

```
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: 19.50%
Status: 4
Code: ABC123
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 ===
```

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
```

Main

main.py

```python
title = input("Enter the book title: ")
author = input("Enter the author: ")
year = input("Enter the year of publication: ")
genre = input("Enter the genre: ")
library = input("Enter the library: ")
member_id = input("Enter your member ID: ")
return_date = input("Enter the return date: ")

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

Output

```
Enter the book title: Game of Thrones
Enter the author: George R. R. Martin
Enter the year of publication: August 1, 1996
Enter the genre: Fantasy
Enter the library: Library
Enter your member ID: 001
Enter the return date: january 22, 2026

You have successfully reserved the book 'Game of Thrones' by George R. R. Martin.
Year of Publication: August 1, 1996
Genre: Fantasy
Library: Library
Member ID: 001
Return Date: january 22, 2026
```

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
```

Main

main.py

Share Run

```
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")
```

Output

```
Enter day: 4
Thursday

=== Code Execution Successful ===
```