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Problem #1:

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:

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

Sample Output:

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


Process finished with exit code 0
```

Problem 2:

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:

```python
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("Dear John, I hope this email finds you well.")
print("I wanted to reach out and say hello.")
print("I hope you are doing well and enjoying your day.")
print("It's been a while since we last spoke, and I wanted to catch up with you.")
print("Let's plan to meet up soon and have a great time together!\n")

print("Subject: %s" % subject)
print("Sender: %s" % sender)
print("Version: %.1f" % version)
print("Discount: %.2f%%" % discount)
print("Status: %s" % status)
print("Code: %s" % code)
print("Location: %s" % location)
print("Age: %d" % age)
print("Company: %s" % company)
print("Website: %s" % website)
```

```
print("Phone: %s" % phone)
print("Job Title: %s" % job_title)
print("Department: %s" % department)
```

Sample 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: 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

Process finished with exit code 0
```

Problem 3:

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:

```python
import string

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

print(f"\nYou have successfully reserved the book {title} by {author}")
print("Year of publication: ", year_ofPub)
print("Genre: ", genre)
print("Library: ", library)
print("Member ID: ", MemberID)
print("Return Date: ", return_date)
```

Sample Output:

```
Enter the book title: Harry Potter
Enter the author: J.K. Rowling
Enter the year of publication: 2000
Enter the genre: Fantasy
Enter the library: West Side
Enter your member ID: 416356
Enter the return date: 12/05/20

You have successfully reserved the book Harry Potter by J.K. Rowling
Year of publication:  2000
Genre:  Fantasy
Library:  West Side
Member ID:  416356
Return Date:  12/05/20

Process finished with exit code 0
```

Problem 4:

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:

```python
import string

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:

```
Enter Day: 3
Wednesday


Process finished with exit code 0
```