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Midterm Lab Task 1

PROBLEM 1: Use Appropriate Escape Sequence(\n, \t \b \n, etc)

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
```

```
print("Database Record ")
print("//////////////////// ")

first_name = "John"
last_name = "Doe"
email = "john.doe@example.com"
university = "ABC University"

print(f"Name:\t\t\t\t\t{first_name} {last_name}")
print(f"Email: \t\t\t\t\t{email}")
print(f"University: \t\t\t\t\t{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.

```
message="Dear John, I hope this email finds you well. \nI wanted to reach
out and say hello. \nI hope you are doing well and enjoying your day. \nIt's
```

been a while since we last spoke, and I wanted to catch up with you. \nLet'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"

```
"""printf"{message}\nSubject: {subject} \nSender: {sender} \nVersion:
{version} \nDiscount: {discount} \nStatus: {status} \nCode: {code}
\nLocation: {location} \nAge: {age} \nCompany: {company} \nWebsite:
{website} \nPhone: {phone} \nJob Title: {job_title} \nDepartment:
{department}"""
```

```
"""print("%s" % message)
print("Subject: %s" % subject)
print("Sender: %s" % sender)
print("Version: %.1f" % version)
print("Discount: %.s" % discount)
print("Status: %c" % 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)"""

print("%s\nSubject: %s \nSender: %s \nVersion: %.1f \nDiscount: %s
\nStatus: %c\nCode: %s \nLocation: %s \nAge: %d \nCompany: %s \nWebsite:
%s \nPhone: %s \nJob Title: %s \nDepartment: %s" %
      (message, subject, sender, version, discount, status, code, location, age,
       company, website, phone, job_title, 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: 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
```

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
```

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

```
print(f"You have successfully reserved the book '{book_title}' by  
{book_author}.")  
print(f"Year of Publication: {year_of_publication}")  
print(f"Genre: {book_genre}")  
print(f"Library: {library}")  
print(f"Member ID: {member_id}")  
print(f"Return Date: {return_date}")
```

OUTPUT

```
Enter the book title: Mockingbird  
Enter the book author: Lee  
Enter the year of publication: 1960  
Enter the book 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
```

```
Enter the book title: 1984  
Enter the book author: Orwell  
Enter the year of publication: 1949  
Enter the book genre: Dystopia  
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: Dystopia  
Library: Central  
Member ID: 12345  
Return Date: 2023-07-10
```

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
```

```
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: 1
Monday

Enter day: 5
Friday

Enter day: 4
Thursday