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Midterm Task Lab Set 1

Problem 1. Using Print Statement. Problem

Write a program that showcases a pattern of the word "CODE" using the letters C, O, D, and E.

Sample Output 1

```
CCCCC  OOOOO  DDDDD  EEEEE
C      O  O  D  D  E
C      O  O  D  D  EEE
C      O  O  D  D  E
CCCCC  OOOOO  DDDDD  EEEEE
```

Code

```
main.py x demo1.py x
1 # Sicheco Problem 1
2 print("CCCCC\tOOOOO\tDDDD \tEEEE")
3 print("C      \tO  O\tD  D\tE   ")
4 print("C      \tO  O\tD  D\tEEE ")
5 print("C      \tO  O\tD  D\tE   ")
6 print("CCCCC\tOOOOO\tDDDD \tEEEE")
7
8 |
```

Output

```
C:\Users\CONLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\CONLAB\PycharmProjects\pythonProject1\demo1.py
CCCCC  OOOOO  DDDDD  EEEEE
C      O  O  D  D  E
C      O  O  D  D  EEE
C      O  O  D  D  E
CCCCC  OOOOO  DDDDD  EEEEE

Process finished with exit code 0
```

Problem 2. Using Escape Sequence. Use only 1 print statement for this output.

Problem

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
```

Code

```
demo1.py
# Solution Problem 2
print("Database Record\n////////////////////\nName: John Doe\nEmail: john.doe@example.com\nUniversity: ABC University")
```

Output

```
C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\demo1.py
Database Record
////////////////////
Name:      John Doe
Email:     john.doe@example.com
University: ABC University

Process finished with exit code 0
```

Problem 3. Input Operations Problem

Item Description

Write a program that prompts the user to enter the recipient, message, name, subject, version, discount, status, code, location, age, company name, website, phone, job title, and department. Display the entered values directly on the console in a specific format simulating an email.

```
Dear [Recipient], I hope this email finds you well.  
[Message]  
Subject: [Subject]  
Sender: [Name]  
Version: [Version]  
Discount: [Discount]%  
Status: [Status]  
Code: [Code]  
Location: [Location]  
Age: [Age]  
Company: [Company Name]  
Website: [Website]  
Phone: [Phone]  
Job Title: [Job Title]  
Department: [Department]
```

```
Enter the recipient: John  
Enter the message: Greetings  
Enter the name: Emily  
Enter the subject: Proposal  
Enter the version: 1.2  
Enter the discount: 10.5  
Enter the status: A  
Enter the code: ABC123  
Enter the location: Paris  
Enter the age: 35  
Enter the company name: XYZ  
Enter the website: www.xyz.com  
Enter the phone: 123-456-7890  
Enter the job title: Manager  
Enter the department: Sales  
Dear John, I hope this email finds you well.  
Greetings  
Subject: Proposal  
Sender: Emily  
Version: 1.2  
Discount: 10.50%  
Status: A  
Code: ABC123  
Location: Paris  
Age: 35  
Company: XYZ  
Website: www.xyz.com  
Phone: 123-456-7890  
Job Title: Manager  
Department: Sales
```

Code

```
thera.py  X  [Run] [Menu] [Full Screen]
thera.py > ...
1  #Sicheco Problem 3
2  recipient = input("Enter the recipient: ")
3  message = input("Enter the message: ")
4  subject = input("Enter email subject: ")
5  sender = input("Enter sender name: ")
6  version = float(input("Enter version: "))
7  discount = float(input("Enter discount: "))
8  status = input("Enter status: ")
9  code = input("Enter code: ")
10 location = input("Enter location: ")
11 age = int(input("Enter age: "))
12 company = input("Enter company name: ")
13 website = input("Enter website: ")
14 phone_number = input("Enter phone number: ")
15 job_title = input("Enter job title: ")
16 department = input("Enter department: ")
17
18 print(f"\nDear {recipient}, I hope this email finds
19 you well.\n")
20 print(message)
21 print("Subject: ", subject)
22 print("Sender: ", sender)
23 print("Version: ", version)
24 print("Discount: ", discount)
25 print("Status: ", status)
26 print("Code: ", code)
27 print("Age: ", age)
28 print("Company: ", company)
29 print("Website: ", website)
30 print("Phone Number: ", phone_number)
31 print("Job Title: ", job_title)
32 print("Department: ", department)
```

Output

```
C:\Users\Sicheco\Desktop\python-workspace>python -u "c:\Users\Sicheco\Desktop\python-workspace\thera.py"
Enter the recipient: Sicheco
Enter the message: Hi
Enter email subject: Hello
Enter sender name: Mimi
Enter version: 2
Enter discount: 10.2
Enter status: Breathing
Enter code: 1928
Enter location: Earth
Enter age: 22
Enter company name: Lulumotive automative Inc.
Enter website: lulumotiveautomativeinc.io
Enter phone number: 1922-756-8132
Enter job title: Janitor
Enter department: Cleaning

Dear Sicheco, I hope this email fnds you well.

Hi
Subject: Hello
Sender: Mimi
Version: 2.0
Discount: 10.2
Status: Breathing
Code: 1928
Age: 22
Company: Lulumotive automative Inc.
Website: lulumotiveautomativeinc.io
Phone Number: 1922-756-8132
Job Title: Janitor
Department: Cleaning
```

Problem 4. Using placeholders with % specifier. Problem.

Write a program that prints the output below:

```
Post Scheduled:
Content: Exciting news! Our new product is launching soon.
Date: 2023-06-30
Time: 10:00 AM
Reach: 2500.50
Engagement: 0.75
Duration: 1.50
Cost: 50.25
Category: N
Status: S
Author Name: John Doe
Author Email: johndoe@example.com
Platform: Facebook
Audience: Targeted
Budget: 1000.00
```

The program should display various post information using placeholders.

Sample Output 1

```
Post Scheduled:
Content: Exciting news! Our new product is launching soon.
Date: 2023-06-30
Time: 10:00 AM
Reach: 2500.50
Engagement: 0.75
Duration: 1.50
Cost: 50.25
Category: N
Status: S
Author Name: John Doe
Author Email: johndoe@example.com
Platform: Facebook
Audience: Targeted
Budget: 1000.00
```

Code.


```
thera.py  X
thera.py > ...
1  #Sicheco Problem 4
2  content = "Exciting news! Our new product is
   launching soon.\n"
3  date = "2023-06-30"
4  time = "10:00 AM"
5  reach = 2500.50
6  engagement = 0.75
7  duration = 1.50
8  cost = 50.25
9  category = 'N'
10 status = "S"
11 author_name = "John Doe"
12 author_email = "john.doe@example.com"
13 platform = "Facebook"
14 audience = "Targeted"
15 budget = 1000.00
16
17 print("Post Scheduled:\n")
18 print("Content: %s" %(content))
19 print("Date: %s" %(date))
20 print("Time: %s" %(time))
21 print("Reach: %.2f" %(reach))
22 print("Engagement: %.2f" %(engagement))
23 print("Duration: %.2f" %(duration))
24 print("Cost: %.2f" %(cost))
25 print("Category: %s" %(category))
26 print("Status: %s" %(status))
27 print("Author Name: %s" %(author_name))
28 print("Author Email: %s" %(author_email))
29 print("Platform: %s" %(platform))
30 print("Audience: %s" %(audience))
31 print("Budget: %.2f" %(budget))
```

Output

Post Scheduled:

Content: Exciting news! Our new product is launching soon.

Date: 2023-06-30

Time: 10:00 AM

Reach: 2500.50

Engagement: 0.75

Duration: 1.50

Cost: 50.25

Category: N

Status: S

Author Name: John Doe

Author Email: john.doe@example.com

Platform: Facebook

Audience: Targeted

Budget: 1000.00

Problem 5. Type Casting.

Problem.

Problem 5. Type Casting

Item Description

Write a program that takes two numbers (one integer and one float) and take their difference after converting the integer to a float. Finally, print the result in format "The difference is: {result}".

Sample Output 1

```
Enter an integer: 5
Enter a float: 3.14
The difference is: 1.86
```

Sample Output 2

```
Enter an integer: 90
Enter a float: 5.2321
The difference is: 84.77
```

-end-

Code.

#Sicheco Problem 5

```
def get_int_num():  
    num = int(input("Enter an integer number: "))  
    return num  
  
def get_float_num():  
    num = float(input("Enter a floating point number:  
    "))  
    return num  
  
def convert_int_to_float(num):  
    return float(num)  
  
def subtract_numbers(num1, num2):  
    return num1 - num2  
  
num1 = get_int_num()  
num2 = get_float_num()  
num1 = convert_int_to_float(num1)  
difference = subtract_numbers(num1, num2)  
  
print(f"The difference is: {difference:.2f}")
```

Output

