Midterm Lab Task Set 1 Python Basic Input-Output/Operators/Escape sequence and Placeholders

Problem 1. Using print statement

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

Sample Output 1

CCCCC 00000 DDDDD EEEEE

C 0 0 D D E

C 0 0 D D E

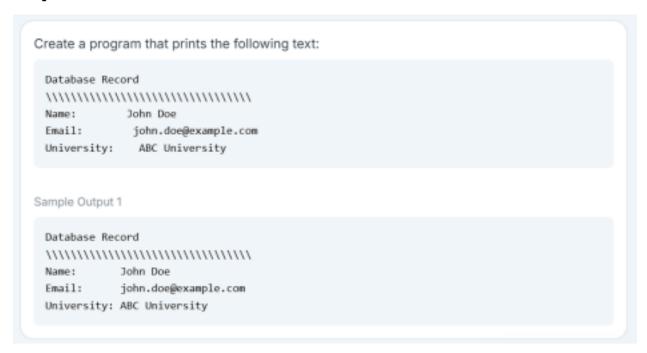
C 0 0 D D E

C CCCC 00000 DDDDD EEEEE

C 0 0 D D E

CCCCC 00000 DDDDD EEEEE
```

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



Problem 3. Input Operations

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
```

Problem 4. Using Placeholders with % specifier

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

Problem 5. Type Casting

```
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-