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Midterm Lab Task Set 1

Python Basic Input-Output/Operators/Escape sequence and Placeholders

Problem 1. Using print statement

Code:

```
1 print("CCCCC 00000 DDDDD EEEEE")
2 print("C      0  0  D  D  E")
3 print("C      0  0  D  D  EEE")
4 print("C      0  0  D  D  E")
5 print("CCCCC 00000 DDDDD EEEEE")
```

Output:

```

C:\Users\COMLAB\AppData\Local\Programs\Python\Python111\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject\script2.py
CCCCC 00000 00000 EEEEE
C 0 0 0 0 E
C 0 0 0 0 EEE
C 0 0 0 0 E
CCCCC 00000 00000 EEEEE

Process finished with exit code 0

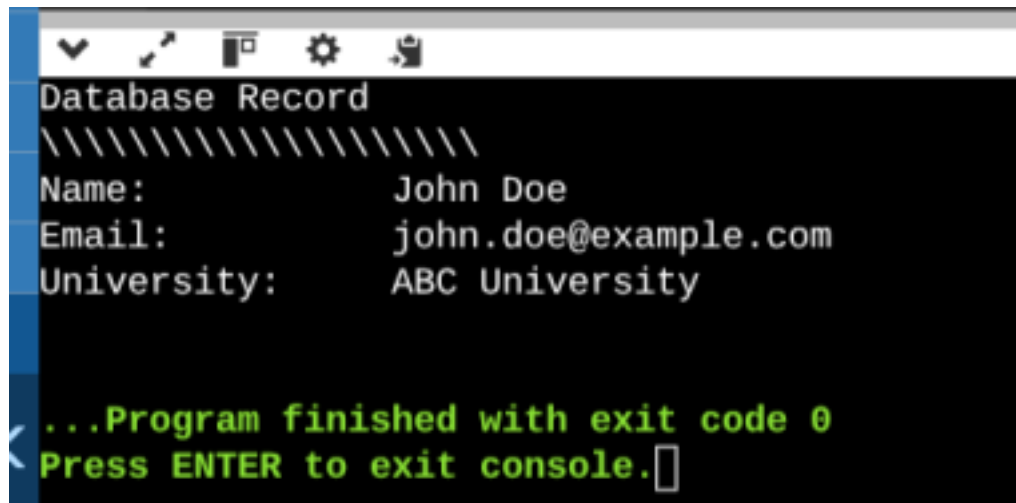
```

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

Code:

[illegible]

Output:

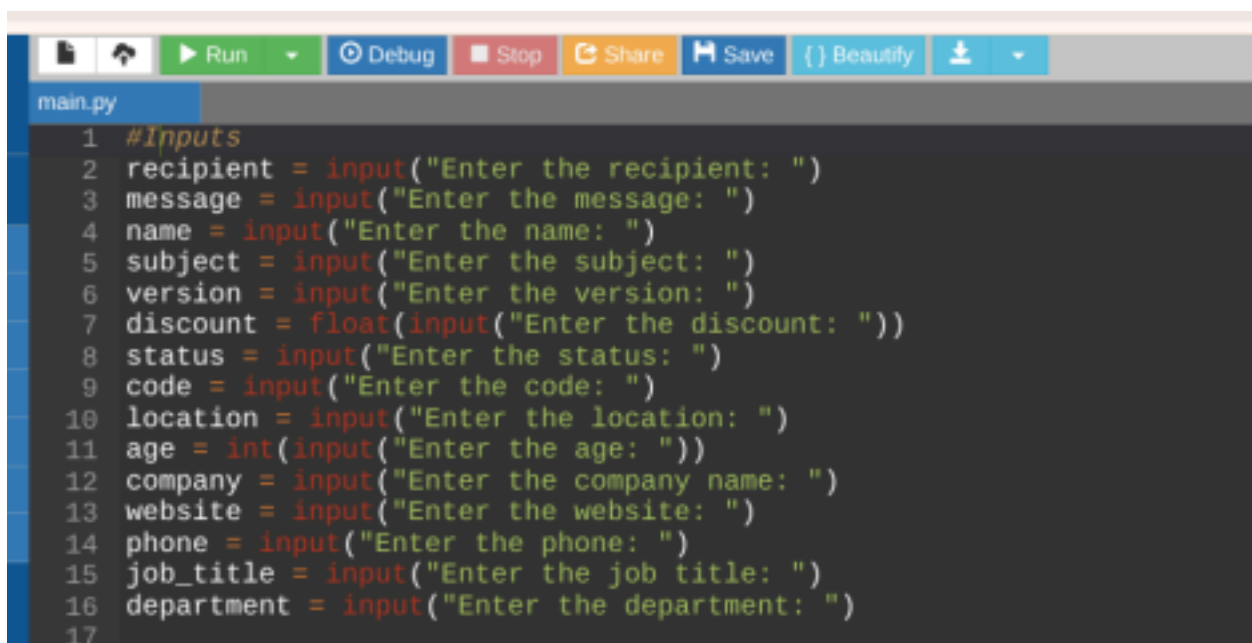


```
Database Record
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Name:          John Doe
Email:         john.doe@example.com
University:    ABC University

...Program finished with exit code 0
Press ENTER to exit console.
```

Problem 3. Input Operations

Code:



```
main.py
1  #Inputs
2  recipient = input("Enter the recipient: ")
3  message = input("Enter the message: ")
4  name = input("Enter the name: ")
5  subject = input("Enter the subject: ")
6  version = input("Enter the version: ")
7  discount = float(input("Enter the discount: "))
8  status = input("Enter the status: ")
9  code = input("Enter the code: ")
10 location = input("Enter the location: ")
11 age = int(input("Enter the age: "))
12 company = input("Enter the company name: ")
13 website = input("Enter the website: ")
14 phone = input("Enter the phone: ")
15 job_title = input("Enter the job title: ")
16 department = input("Enter the department: ")
17
```

```
18 #The output of email format
19 print(f"\nDear {recipient}, I hope this email finds you well.\n")
20 print(message)
21 print(f"\nSubject: {subject}")
22 print(f"Sender: {name}")
23 print(f"Version: {version}")
24 print(f"Discount: {discount:.2f}%")
25 print(f"Status: {status}")
26 print(f"Code: {code}")
27 print(f"Location: {location}")
28 print(f"Age: {age}")
29 print(f"Company: {company}")
30 print(f"Website: {website}")
31 print(f"Phone: {phone}")
32 print(f"Job Title: {job_title}")
33 print(f"Department: {department}")
```

Output:

```
input
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

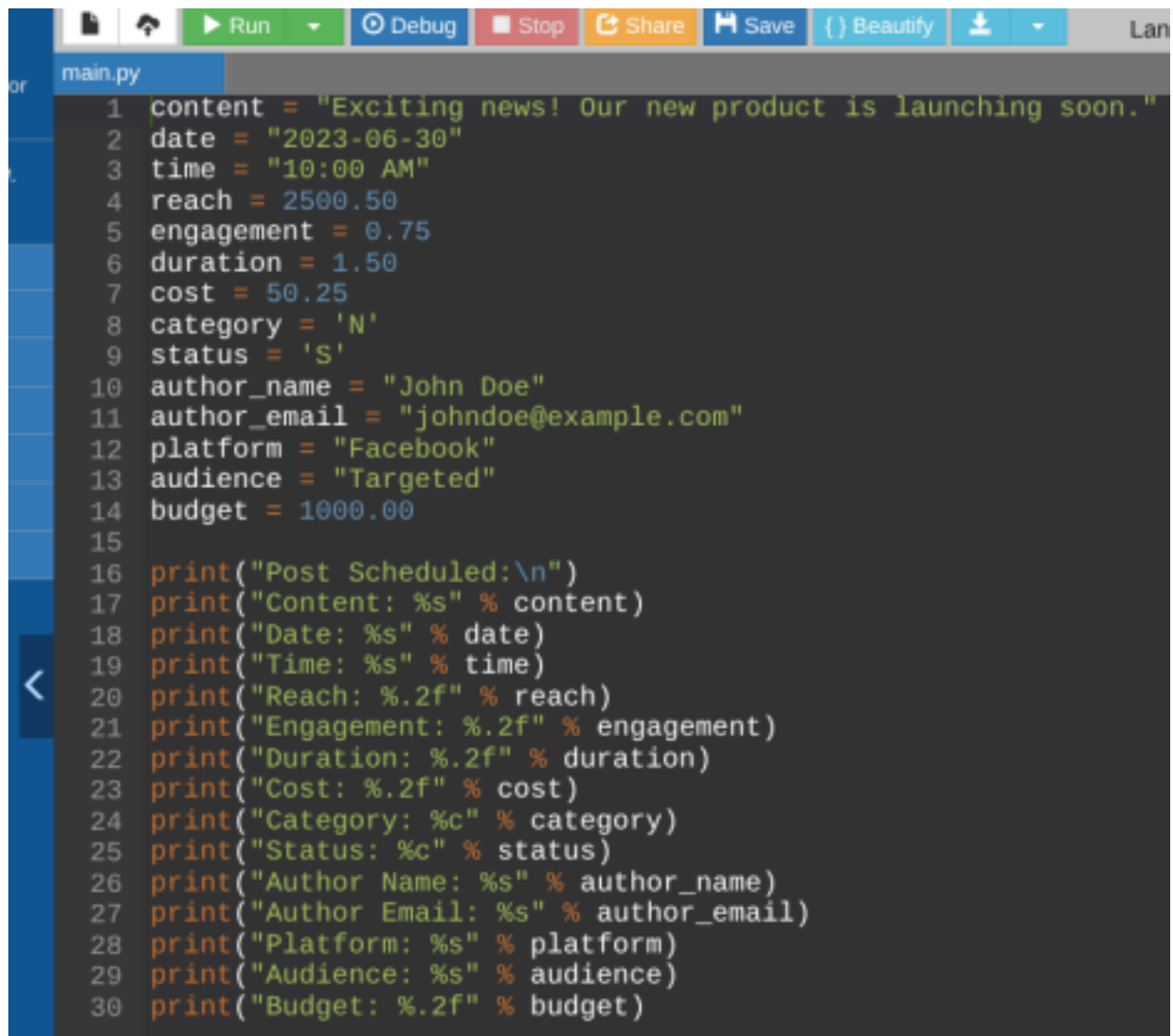
Dear John, I hope this email finds you well.

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

...Program finished with exit code 0
Press ENTER to exit console.
```

Problem 4. Using Placeholders with % specifier

Code:

A screenshot of a code editor interface. The top toolbar contains icons for file operations and buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a download icon. The file name 'main.py' is shown in the tab. The code is a Python script that defines variables for a post and prints them out. The variables are: content, date, time, reach, engagement, duration, cost, category, status, author_name, author_email, platform, audience, and budget. The print statements use format specifiers like %s, %c, and %.2f. The code is as follows:

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

Output:

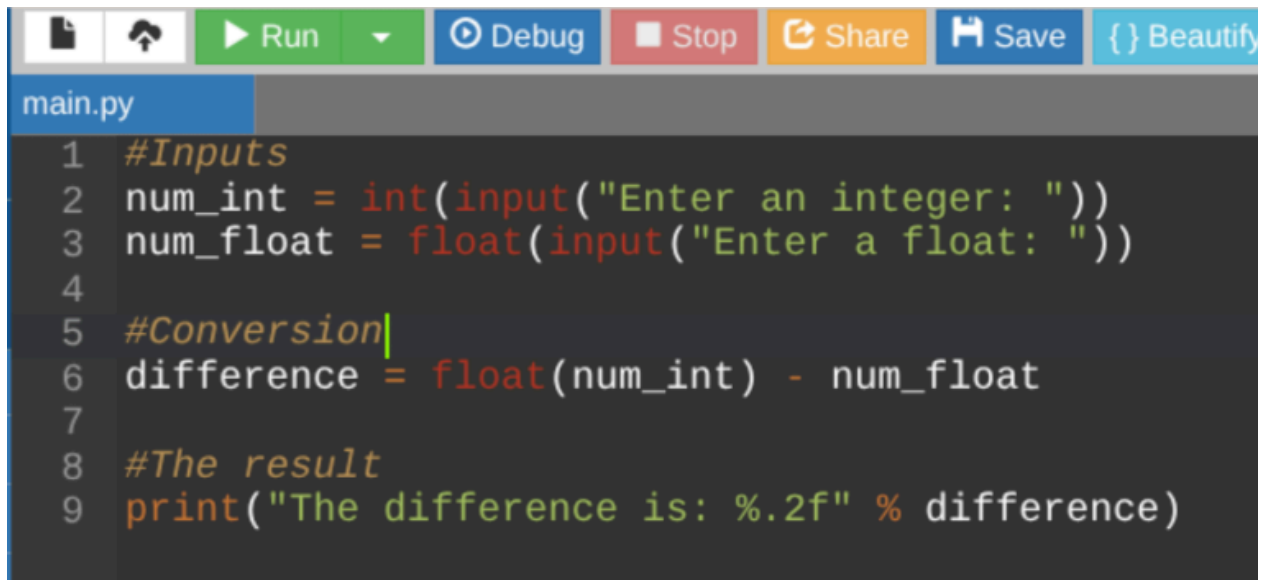
```
^ ↗ 📄 ⚙️ 📋 input
Post Scheduled:

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

...Program finished with exit code 0
Press ENTER to exit console.█
```

Problem 5. Type Casting

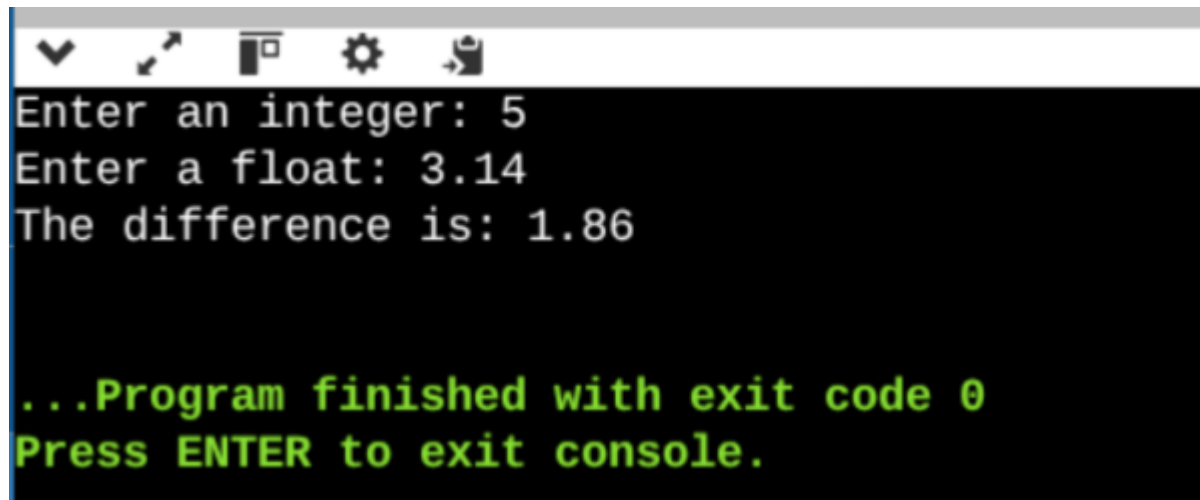
Code:



The screenshot shows a code editor with a toolbar at the top containing icons for file operations, a 'Run' button, a 'Debug' button, a 'Stop' button, a 'Share' button, a 'Save' button, and a 'Beautify' button. The file name 'main.py' is visible in the editor's header. The code is as follows:

```
1 #Inputs
2 num_int = int(input("Enter an integer: "))
3 num_float = float(input("Enter a float: "))
4
5 #Conversion
6 difference = float(num_int) - num_float
7
8 #The result
9 print("The difference is: %.2f" % difference)
```

Output:



The screenshot shows a terminal window with a toolbar at the top containing icons for window management, a settings gear, and a terminal icon. The terminal output is as follows:

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

...Program finished with exit code 0
Press ENTER to exit console.
```