ASSIGNMENT-4.

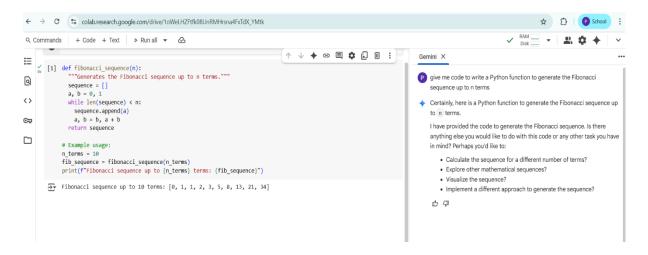
NAME: HANSINI REDDY

ROLL NO: 2403A510D5

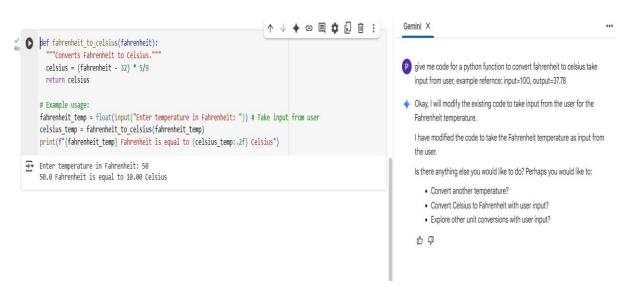
BATCH:01

COURSE: ALASSISTED CODING

TASK 1:



TASK 2:



TASK 3:

```
Gemini X
✓ def extract_domain(email):
"""Extracts the domain name from an email address."""
                                                                                                                                                        P Give me code for a Python function that extracts the domain name from an
              domain = "@" + email.split("@")[1]
                                                                                                                                                             email address. Take input from user Examples: Input: "hansi@gmail.com" ,
            return domain
except IndexError:
                                                                                                                                                             Output: "@gmail.com" Input: "sunanditha@vahoo.com" .Output:
                                                                                                                                                              @yahoo.com" Input: "hasini@company.org" , Output: "@company.org"
              return "Invalid email format"

    Certainly, here is a Python function that extracts the domain name from an

         # Example usage:
email_address = input("Enter an email address: ")
                                                                                                                                                             email address, taking input from the user.
         domain_name = extract_domain(email_address)
print(f"The domain name is: {domain_name}")
                                                                                                                                                            I have provided the code to extract the domain name from an email address
                                                                                                                                                             and take user input.
    Enter an email address: "honey@gmail.com"
The domain name is: @gmail.com"
                                                                                                                                                             Is there anything else you would like to do? Perhaps you would like to:

    Test the function with a different email address?

    Modify the function to handle different edge cases (e.g., multiple "@"

                                                                                                                                                                  symbols)?

    Extract other parts of an email address (e.g., the username)?

    Work on a different task?
```

TASK 4:

ZERO SHOT:

```
def is palindrome(word):
    """Checks if a word is a palindrome, ignoring punctuation and case.""
    # Remove punctuation and convert to lowercase
    cleaned word = ".join(char for char in word if char not in string.punctuation).lower()
    # Example usage:
    word1 = "Racecar"
    word2 = "A man, a plan, a canal: Panama."
    word3 = "hello"

print(f"'(word1)' is a palindrome: (is_palindrome(word2))")
    print(f"'(word3)' is a palindrome: (is_palindrome(word3))")

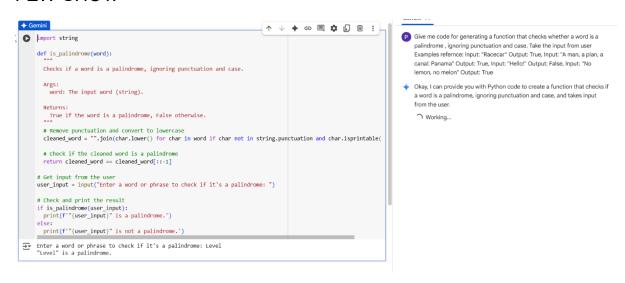
**Racecar' is a palindrome: True
    "A man, a plan, a canal: Panama."

**Racecar' is a palindrome: True
    "A man, a plan, a canal: Panama.' is a palindrome(word3))")

**Racecar' is a palindrome: True
    "A man, a plan, a canal: Panama.' is a palindrome(word3))")

**Racecar' is a palindrome: True
    "A man, a plan, a canal: Panama.' is a palindrome: False
    "hello' is a palindrome: False
```

FEW SHOT:



TASK 5:

```
↑ ↓ ♦ 🖨 🖺 🗓 :
def find_maximum(num1, num2, num3):
    """Finds the maximum of three numbers without using max()."""
    maximum = num1.
    if num2 > maximum:
    maximum = num2.
    if num3 > maximum:
    maximum = num3
    return maximum
                        # Example usage:
                      # Example usage:

try:

num1 = float(input("Enter the first number: "))

num2 = float(input("Enter the second number: "))

num3 = float(input("Enter the third number: "))

maximum_number = find_maximum(num1, num2, num3)

print(f"The maximum of (num1), (num2), and (num3) is: (maximum_number)")

except ValueError:

print("Invalid input. Please enter valid numbers.")
          Enter the first number: 89
Enter the second number: 66
Enter the third number: 90
The maximum of 89.0, 66.0, and 90.0 is: 90.0
```

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- numbers, without using bull-in max(). take input from user Examples: Input: 5, 1, 9, Output: 9 Input: -15, -39, -8, Output: -8 Input: 1000, 10, 100, Output: 1000
- Certainly, here is a Python function that finds the maximum of three numbers without using the built-in max() function, and takes input from

I have provided the code to find the maximum of three numbers and take

user input. Is there anything else you would like to do? Perhaps you would like to:

- Test the function with different numbers?

 Modify the function to find the maximum of more than three numbers?
- Compare this approach to using the built-in (max()) function?
 Work on a different task?

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