

AIAC LAB ASSIGNMENT 7.2

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Batch : AIAI 02

Subject : AI Assisted Coding

Task – 1

Task Description :

Syntax Error in Conditionals.

Prompt :

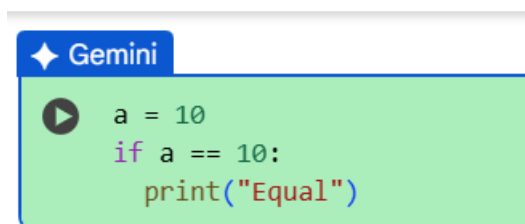
Detect the error in this code

```
int a = 10
```

```
if a = 10:
```

```
    Print("Equal")
```

Code:



```
◆ Gemini  
a = 10  
if a == 10:  
    print("Equal")
```

Output:

The error in your code is in the if statement. You are using the assignment operator = instead of the comparison operator == to check if a is equal to 10. I will fix this for you.

Task – 2

Task Description :

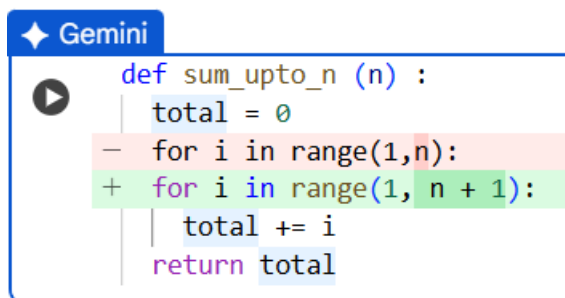
Loop Off-By-One Error.

Prompt :

Detect the error in this code.

```
def sum_upto_n (n):  
    total = 0  
    for i in range(1,n):  
        total += i  
    return total
```

Code :



The screenshot shows a code editor interface with a blue header bar containing a star icon and the word "Gemini". Below the header, there is a play button icon. The code is as follows:

```
def sum_upto_n (n) :  
    total = 0  
    - for i in range(1,n):  
    + for i in range(1, n + 1):  
        total += i  
    return total
```

The original code line `for i in range(1,n):` is marked with a red minus sign, and the corrected line `for i in range(1, n + 1):` is marked with a green plus sign.

Output :

I see the code is intended to sum numbers up to n. The current implementation excludes n from the sum because the range function in Python is exclusive of the stop value. I will modify the code to include n in the sum.

Task – 3

Task Description:

Error : AttributeError

Prompt :

Debug the Code

```
class user:
    def _init_(self, name):
        self.name = name
U = user("Alice")
Print(u.getName())
```

Code:

```
◆ Gemini
class user:
- def _init_(self, name):
+ def __init__(self, name):
    self.name = name

-u = User("Alice")
-print(u.getName())
+u = user("Alice")
+print(u.name)
```

Output:

I will debug the selected cell. It seems there are a couple of errors: the constructor `_init_` should be `__init__`, the class name `User` should be `user` to match the class definition, and the `getName()` method does not exist in the class. I will correct these.

Task – 4

Task Description:

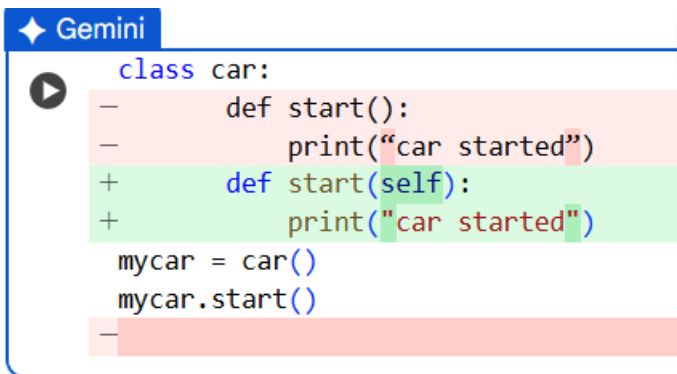
Incorrect Class Attribute Initialization

Prompt:

Debug the Code

```
class car:
    def start():
        print("car started")
mycar = car()
mycar.start()
```

Code:



```
class car:
    def start():
        print("car started")
    def start(self):
        print("car started")
mycar = car()
mycar.start()
```

Output:

I will debug the selected cell. It looks like there's a syntax error with the quotes in the print statement. Also, the start method is missing the self parameter. I will fix these issues.

Task – 5

Task Description:

Conditional Logic Error in Grading System

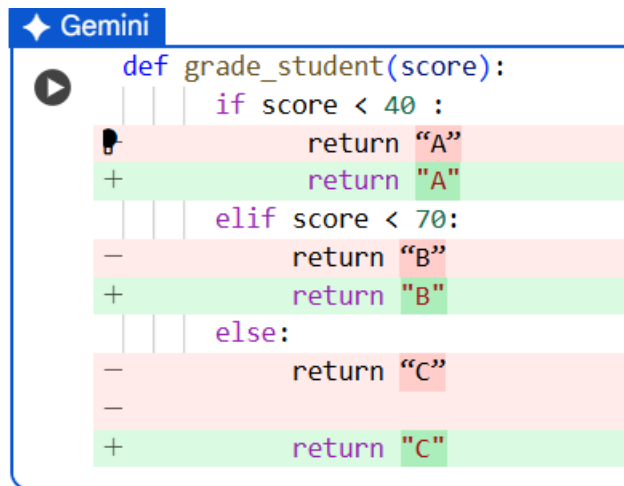
Prompt:

Debug the code

```
def grade_student(score):
    if score < 40 :
        return "A"
    elif score < 70:
```

```
        return "B"  
    else:  
        return "C"
```

Code:



```
def grade_student(score):  
    if score < 40 :  
        return "A"  
    + return "A"  
    elif score < 70:  
        return "B"  
    + return "B"  
    else:  
        return "C"  
    -  
    -  
    + return "C"
```

Output:

I will debug the selected cell. It seems there is a logical error in the grade_student function where scores between 40 and 69 are being incorrectly assigned a grade of "C". I will correct the order of the conditions to fix this.