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```python
'''
Task 1: Operators Tasks

1. Calculate sum, difference, product, quotient of two numbers
2. Find remainder of division
3. Calculate simple interest
4. Convert minutes to hours and minutes
5. Find square and cube of a number
6. Check if a student passed (marks >= 40)
7. Compare two ages and print who is older
8. Check if number >= 100
9. Check if number is positive OR zero
10. Check if number is NOT negative
'''


x = 23
y = 4

print(x + y)
print(x - y)
print(x * y)
print(x / y)
print(x % y)

p, t, r = 1000, 3, 7
si = (p * t * r) / 100
print(si)

min = 125
hrs = min // 60
min = min % 60
print(f"{hrs} hours and {min} minutes")

num = 5
print(num ** 2)
print(num ** 3)

marks1 = 33
marks2 = 82
print(marks1 >= 40)
print(marks2 >= 40)

age1 = 25
age2 = 30
if age1 > age2:
    print("age1 is older")
else:
```

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    print("age1 is older")
else:
    print("age2 is older")

num = 150
print(num >= 100)

num = -5
print(num >= 0)
print(num < 0)

print("==============================================")


'''
Task 2: Conditional Statements

1. Find the smallest of two numbers
2. Check if a person is eligible to vote
3. Check if a number is even or odd
4. Grade a student based on marks
'''

num1 = 22
num2 = 47
if num1 < num2:
    print("num1 is smaller")
else:
    print("num2 is smaller")

age = 18
if age >= 18:
    print("Eligible to vote")
else:
    print("Not eligible to vote")

num = 8
if num % 2 == 0:
    print("Even")
else:
    print("Odd")

marks = [91, 62, 43]
for mark in marks:
    if mark >= 90:
        print("Grade A")
    elif mark >= 75:
```

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    else:
        print("Fail")


'''
Task 3: Loop Tasks
'''

# Print numbers from 1 to 10
for i in range(1, 11):
    print(i)

# Print even numbers from 1 to 50
for i in range(1, 51):
    if i % 2 == 0:
        print(i)

# Print multiplication table of a number
num = 5
for i in range(1, 11):
    print(num * i)

# Print characters of a string one by one
string = "internship"
for char in string:
    print(char)

# Calculate sum of first N numbers
N = int(input("Enter N: "))
sum = 0
for i in range(1, N + 1):
    sum += i
print(sum)

# Count vowels in a string
v = "aeiouAEIOU"
count = 0
for char in string:
    if char in v:
        count += 1
print(count)

# Print numbers from 10 to 1 using while loop
i = 10
while i >= 1:
    print(i)
    i -= 1
```

```
i = 10
while i >= 1:
    print(i)
    i -= 1

# Find sum of digits and count digits
num = int(input("Enter a number: "))
sum = 0
count = 0
while num > 0:
    digit = num % 10
    sum += digit
    count += 1
    num //= 10

print(sum)
print(count)
```

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```
27
19
92
5.75
3
210.0
2 hours and 5 minutes
25
125
False
True
age2 is older
True
False
True
================================================
num1 is smaller
Eligible to vote
Even
Grade A
Grade C
Fail
================================================
1
2
3
4
5
6
7
8
9
10
2
4
6
8
10
12
14
16
18
20
22
24
26
28
```

```
30
32
34
36
38
40
42
44
46
48
50
5
10
15
20
25
30
35
40
45
50
i
n
t
e
r
n
s
h
i
p
Enter N: 4
10
3
10
9
8
7
6
5
4
3
2
1
Enter a number: 72
9
2
```