python > day4 > task > task2.py > ...

```python
#task 1

studentName = "Arjun Kumar"
studentAge = 21
isEnrolled = True
course_name = "Data Science"
course_duration = "6 months"
course_fee = 25000.0
print("Student Name:", studentName)
print("Student Age:", studentAge)
print("Is Enrolled:", isEnrolled)
print("Course Name:", cour
print("Course Duration:", course_duration)
print("Course Fee:", course_fee)
```

(variable) course_duration: Literal['6 months']

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka> cd python
PS D:\karka\python> cd day4
PS D:\karka\python\day4> cd task
PS D:\karka\python\day4\task> python task2.py
Student Name: Arjun Kumar
Student Age: 21
Is Enrolled: True
Course Name: Data Science
Course Duration: 6 months
Course Fee: 25000.0
```

python > day4 > task > task2.py > ...

```
 8   #print("Student Name:", studentName)
 9   #print("Is Enrolled:", isEnrolled)
10   #print("Course Name:", course_name)
11   #print("Course Duration:", course_duration)
12   #print("Course Fee:", course_fee)
13
14
15   #task 2
16
17   number1 = 15
18   number2 = 25
19   sum_result = number1 + number2
20   print("The sum of", number1, "and", number2, "is:", sum_result)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka> cd python
PS D:\karka\python> cd day4
PS D:\karka\python\day4> cd task
PS D:\karka\python\day4\task> python task2.py
Student Name: Arjun Kumar
Student Age: 21
Is Enrolled: True
Course Name: Data Science
Course Duration: 6 months
Course Fee: 25000.0
PS D:\karka\python\day4\task> python task2.py
The sum of 15 and 25 is: 40
```

python > day4 > task > task2.py > ...

```python
#task 2
#number1 = 15
#number2 = 25
#sum_result = number1 + number2
#print("The sum of", number1, "and", number2, "is:", su

#task3
import math
radius = 7
area = math.pi * radius ** 2
print("The area of the circle with radius", radius, "is
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka\python\day4> cd task
PS D:\karka\python\day4\task> python task2.py
Student Name: Arjun Kumar
Student Age: 21
Is Enrolled: True
Course Name: Data Science
Course Duration: 6 months
Course Fee: 25000.0
PS D:\karka\python\day4\task> python task2.py
The sum of 15 and 25 is: 40
PS D:\karka\python\day4\task> python task2.py
The area of the circle with radius 7 is: 153.93804002589985
```

```python
#print("The sum of", number1, "and", number2, "is:", sum
#task3
#import math
#radius = 7
#area = math.pi * radius ** 2
#print("The area of the circle with radius", radius, "is
#task4
length = float(input("Enter the length of the rectangle:
width = float(input("Enter the width of the rectangle: "
area_rectangle = length * width
print("The area of the rectangle is:", area_rectangle)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Is Enrolled: True
Course Name: Data Science
Course Duration: 6 months
Course Fee: 25000.0
PS D:\karka\python\day4\task> python task2.py
The sum of 15 and 25 is: 40
PS D:\karka\python\day4\task> python task2.py
The area of the circle with radius 7 is: 153.93804002589985
PS D:\karka\python\day4\task> python task2.py
Enter the length of the rectangle: 10
Enter the width of the rectangle: 5
The area of the rectangle is: 50.0
```

ython > day4 > task > task2.py > ...

```python
#import math
#radius = 7
#area = math.pi * radius ** 2
#print("The area of the circle with radius", radius, "is:", area)

#task 4
#length = float(input("Enter the length of the rectangle: "))
#width = float(input("Enter the width of the rectangle: "))
#area_rectangle = length * width
#print("The area of the rectangle is:", area_rectangle)

#task 5
base = float(input("Enter the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))
area_triangle = (base * height) / 2
print("The area of the triangle is:", area_triangle)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka\python\day4\task> python task2.py
The sum of 15 and 25 is: 40
PS D:\karka\python\day4\task> python task2.py
The area of the circle with radius 7 is: 153.93804002589985
PS D:\karka\python\day4\task> python task2.py
Enter the length of the rectangle: 10
Enter the width of the rectangle: 5
The area of the rectangle is: 50.0
PS D:\karka\python\day4\task> python task2.py
Enter the base of the triangle: 12
Enter the height of the triangle: 6
The area of the triangle is: 36.0
```

python > day4 > task > task2.py > ...

```
32  #base = float(input("Enter the base of the triangle: "))
33  #height = float(input("Enter the height of the triangle: "))
34  #area_triangle = (base * height) / 2
35  #print("The area of the triangle is:", area_triangle)
36
37  #task 6
38  num1 = float(input("Enter first number: "))
39  num2 = float(input("Enter second number: "))
40  addition = num1 + num2
41  subtraction = num1 - num2
42  multiplication = num1 * num2
43  if num2 != 0:
44      division = num1 / num2
45  else:
46      division = "Cannot divide by zero"
47  print("Addition:", addition)
48  print("Subtraction:", subtraction)
49  print("Multiplication:", multiplication)
50  print("Division:", division)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
The area of the rectangle is: 50.0
PS D:\karka\python\day4\task> python task2.py
Enter the base of the triangle: 12
Enter the height of the triangle: 6
The area of the triangle is: 36.0
PS D:\karka\python\day4\task> python task2.py
Enter first number: 20
Enter second number: 4
Addition: 24.0
Subtraction: 16.0
Multiplication: 80.0
Division: 5.0
```

```
45      #   division = "Cannot divide by zero"
46    #print("Addition:", addition)
47    #print("Multiplication:", multiplication)
48    #print("Division:", division)
49
50    #task7
51    value = 10
52    print("Initial value:", value)
53    value += 5
54    print("After += 5:", value)
55    value -= 3
56    print("After -= 3:", value)
57    value *= 2
58    print("After *= 2:", value)
59    value /= 4
60    print("After /= 4:", value)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Enter first number: 20
Enter second number: 4
Addition: 24.0
Subtraction: 16.0
Multiplication: 80.0
Division: 5.0
PS D:\karka\python\day4\task> python task2.py
Initial value: 10
After += 5: 15
After -= 3: 12
After *= 2: 24
After /= 4: 6.0
```

```
52    #value += 5
53    #print("After -= 3:", value)
54    #print("After *= 2:", value)
55    #value /= 4
56    #print("After /= 4:", value)
57
58    #task 8
59    count = 10
60    print("Initial count:", count)
61    count += 1
62    print("After increment (+1):", count)
63    count -= 1
64    print("After decrement (-1):", count)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Multiplication: 80.0
Division: 5.0
PS D:\karka\python\day4\task> python task2.py
Initial value: 10
After += 5: 15
After -= 3: 12
After *= 2: 24
After /= 4: 6.0
PS D:\karka\python\day4\task> python task2.py
Initial count: 10
After increment (+1): 11
After decrement (-1): 10
```

```python
#task 9
a = 15
b = 10
print("a == b:", a == b)
print("a != b:", a != b)
print("a > b:", a > b)
print("a < b:", a < b)
print("a >= b:", a >= b)
print("a <= b:", a <= b)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
After /= 4: 6.0
PS D:\karka\python\day4\task> python task2.py
Initial count: 10
After increment (+1): 11
After decrement (-1): 10
PS D:\karka\python\day4\task> python task2.py
a == b: False
a != b: True
a > b: True
a < b: False
a >= b: True
a <= b: False
```

```python
#task 10
isStudent = True
hasIDCard = False
print("isStudent AND hasIDCard:", isStudent and hasIDCard)
print("isStudent OR hasIDCard:", isStudent or hasIDCard)
print("NOT isStudent:", not isStudent)
print("NOT hasIDCard:", not hasIDCard)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\karka\python\day4\task> python task2.py
a == b: False
a != b: True
a > b: True
a < b: False
a >= b: True
a <= b: False
PS D:\karka\python\day4\task> python task2.py
isStudent AND hasIDCard: False
isStudent OR hasIDCard: True
NOT isStudent: False
NOT hasIDCard: True
```

```python
#task 11
a = 5
b = 10
print("Before swapping (using third variable): a =", a, ", b =", b)
temp = a
a = b
b = temp
print("After swapping (using third variable): a =", a, ", b =", b)
a, b = b, a
print("After swapping (without third variable): a =", a, ", b =", b)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
a < b: False
a >= b: True
a <= b: False
PS D:\karka\python\day4\task> python task2.py
isStudent AND hasIDCard: False
isStudent OR hasIDCard: True
NOT isStudent: False
NOT hasIDCard: True
PS D:\karka\python\day4\task> python task2.py
Before swapping (using third variable): a = 5 , b = 10
After swapping (using third variable): a = 10 , b = 5
After swapping (without third variable): a = 5 , b = 10
```

```python

    #task 12
    #num1 = float(input("Enter first number: "))
    #num2 = float(input("Enter second number: "))
    #num3 = float(input("Enter third number: "))
    #average = (num1 + num2 + num3) / 3
    #print("The average is:", average)

    #task 13
    a = 10
    b = 30
    c = 12
    d = 3
    result = (a + b) * c / d
    print("Result of ((a + b) * c) / d is:", result)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
NOT hasIDCard: True
PS D:\karka\python\day4\task> python task2.py
Before swapping (using third variable): a = 5 , b = 10
After swapping (using third variable): a = 10 , b = 5
After swapping (without third variable): a = 5 , b = 10
PS D:\karka\python\day4\task> python task2.py
Enter first number: 12
Enter second number: 19
Enter third number: 20
The average is: 17.0
```

```python

#task 13
a = 10
b = 30
c = 12
d = 3
result = (a + b) * c / d
print("Result of ((a + b) * c) / d is:", result)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
NOT hasIDCard: True
PS D:\karka\python\day4\task> python task2.py
Before swapping (using third variable): a = 5 , b = 10
After swapping (using third variable): a = 10 , b = 5
After swapping (without third variable): a = 5 , b = 10
PS D:\karka\python\day4\task> python task2.py
Enter first number: 12
Enter second number: 19
Enter third number: 20
The average is: 17.0
PS D:\karka\python\day4\task> python task2.py
Result of ((a + b) * c) / d is: 160.0
```

```python
#task 14
tamil = int(input("Enter Tamil marks: "))
english = int(input("Enter English marks: "))
maths = int(input("Enter Maths marks: "))
science = int(input("Enter Science marks: "))
social = int(input("Enter Social marks: "))
total = tamil + english + maths + science + social
average = total / 5
print("Total Marks:", total)
print("Average Marks:", average)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
The average is: 17.0
PS D:\karka\python\day4\task> python task2.py
Result of ((a + b) * c) / d is: 160.0
PS D:\karka\python\day4\task> python task2.py
Result of ((a + b) * c) / d is: 160.0
Enter Tamil marks: 90
Enter English marks: 98
Enter Maths marks: 97
Enter Science marks: 96
Enter Social marks: 90
Total Marks: 471
Average Marks: 94.2
```