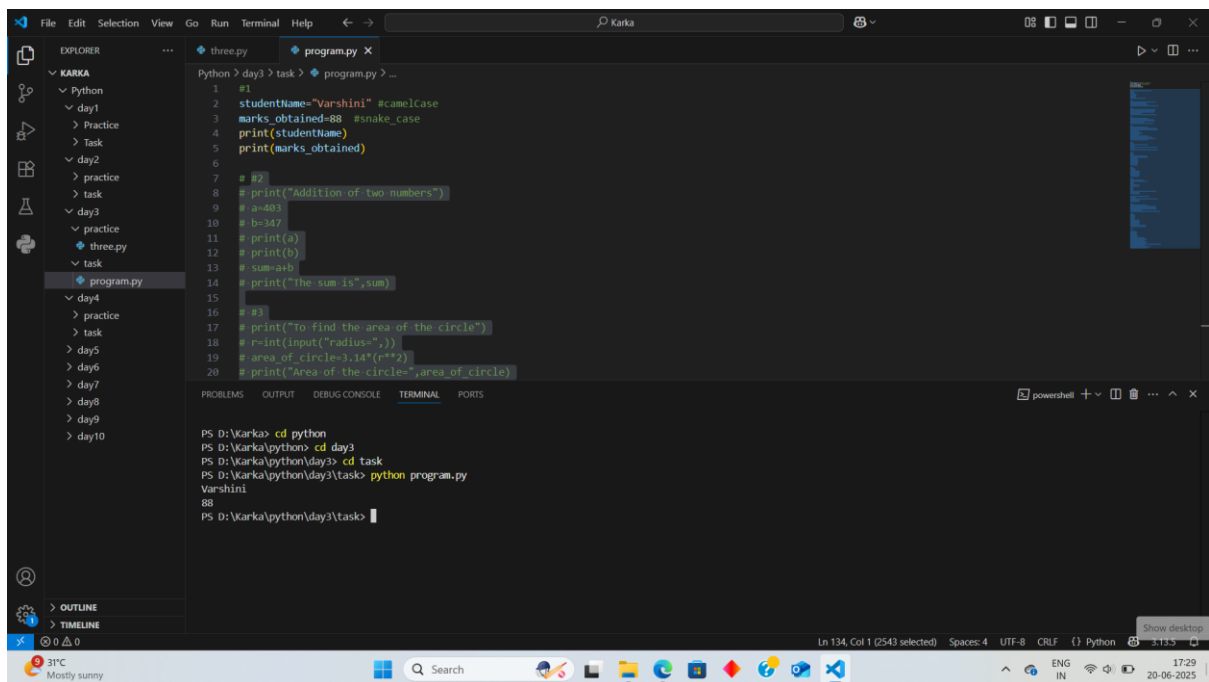


Task 1



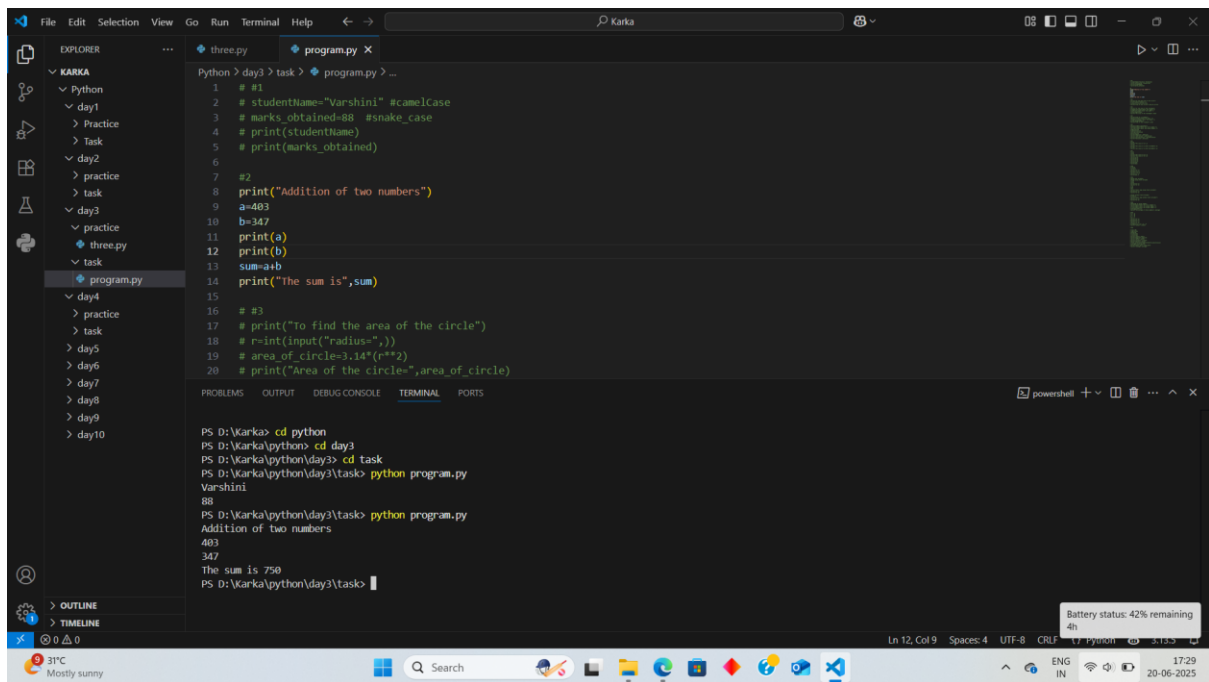
The screenshot shows the Visual Studio Code editor with a file explorer on the left displaying a project structure under 'KARKA'. The main editor window shows a Python script named 'program.py' with the following code:

```
1 #1
2 studentName="Varshini" #camelCase
3 marks_obtained=88 #snake_case
4 print(studentName)
5 print(marks_obtained)
6
7 #2
8 #print("Addition of two numbers")
9 a=403
10 b=347
11 print(a)
12 print(b)
13 sum=a+b
14 print("The sum is",sum)
15
16 #3
17 #print("To find the area of the circle")
18 #r=int(input("radius-"))
19 #area_of_circle=3.14*(r**2)
20 #print("Area of the circle-",area_of_circle)
```

The terminal window at the bottom shows the execution of the script:

```
PS D:\Karka> cd python
PS D:\Karka\python> cd day3
PS D:\Karka\python\day3> cd task
PS D:\Karka\python\day3\task> python program.py
Varshini
88
PS D:\Karka\python\day3\task> |
```

Task2



The screenshot shows the same Visual Studio Code editor setup as Task 1, but the terminal output is different, indicating a modified script or execution environment:

```
PS D:\Karka> cd python
PS D:\Karka\python> cd day3
PS D:\Karka\python\day3> cd task
PS D:\Karka\python\day3\task> python program.py
Varshini
88
PS D:\Karka\python\day3\task> python program.py
Addition of two numbers
403
347
The sum is 750
PS D:\Karka\python\day3\task> |
```

The terminal output shows the script being executed twice. The first execution produces the same output as Task 1. The second execution produces different output, suggesting the script was modified to include the addition of two numbers and the calculation of the area of a circle.

Task3

The screenshot shows the Visual Studio Code interface with the Explorer panel on the left displaying a file tree for 'KARKA'. The file 'program.py' is selected under 'day3' > 'task'. The main editor shows the code for 'program.py' with line numbers 6 to 25. The code includes comments for each task and implements the logic for tasks 1, 2, and 3. The terminal at the bottom shows the execution of the program, displaying the output for each task.

```
Python > day3 > task > program.py > ...
6
7 # #2
8 # print("Addition of two numbers")
9 # a=403
10 # b=347
11 # print(a)
12 # print(b)
13 # sum=a+b
14 # print("The sum is",sum)
15
16 #3
17 print("To find the area of the circle")
18 r=int(input("radius="))
19 area_of_circle=3.14*(r**2)
20 print("Area of the circle=",area_of_circle)
21
22 #4
23 # print("To find area of the rectangle")
24 # length=int(input("Enter the length:"))
25 # width=int(input("Enter the width:"))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\Karka> cd python
PS D:\Karka\python> cd day3
PS D:\Karka\python\day3> cd task
PS D:\Karka\python\day3\task> python program.py
Varshini
88
PS D:\Karka\python\day3\task> python program.py
Addition of two numbers
403
347
The sum is 750
PS D:\Karka\python\day3\task> python program.py
To find the area of the circle
radius=4
Area of the circle= 50.24
PS D:\Karka\python\day3\task>
```

Task4

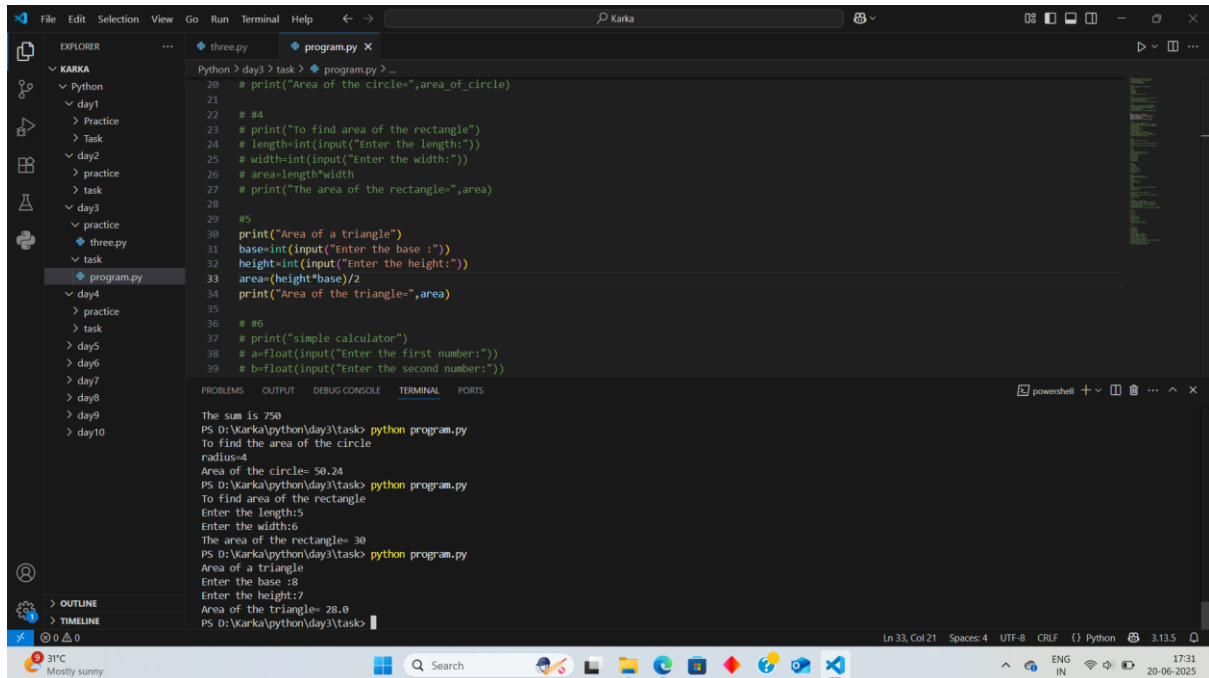
The screenshot shows the Visual Studio Code interface with the Explorer panel on the left displaying a file tree for 'KARKA'. The file 'program.py' is selected under 'day3' > 'task'. The main editor shows the code for 'program.py' with line numbers 14 to 33. The code includes comments for each task and implements the logic for tasks 1, 2, 3, 4, and 5. The terminal at the bottom shows the execution of the program, displaying the output for each task.

```
Python > day3 > task > program.py > ...
14 # print("The sum is",sum)
15
16 #3
17 # print("To find the area of the circle")
18 # r=int(input("radius="))
19 # area_of_circle=3.14*(r**2)
20 # print("Area of the circle=",area_of_circle)
21
22 #4
23 print("To find area of the rectangle")
24 length=int(input("Enter the length:"))
25 width=int(input("Enter the width:"))
26 area=length*width
27 print("The area of the rectangle=",area)
28
29 #5
30 # print("Area of a triangle")
31 # base=int(input("Enter the base :"))
32 # height=int(input("Enter the height:"))
33 # area=(height*base)/2
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
88
PS D:\Karka\python\day3\task> python program.py
Addition of two numbers
403
347
The sum is 750
PS D:\Karka\python\day3\task> python program.py
To find the area of the circle
radius=4
Area of the circle= 50.24
PS D:\Karka\python\day3\task> python program.py
To find area of the rectangle
Enter the length:5
Enter the width:6
The area of the rectangle= 30
PS D:\Karka\python\day3\task>
```

Task5



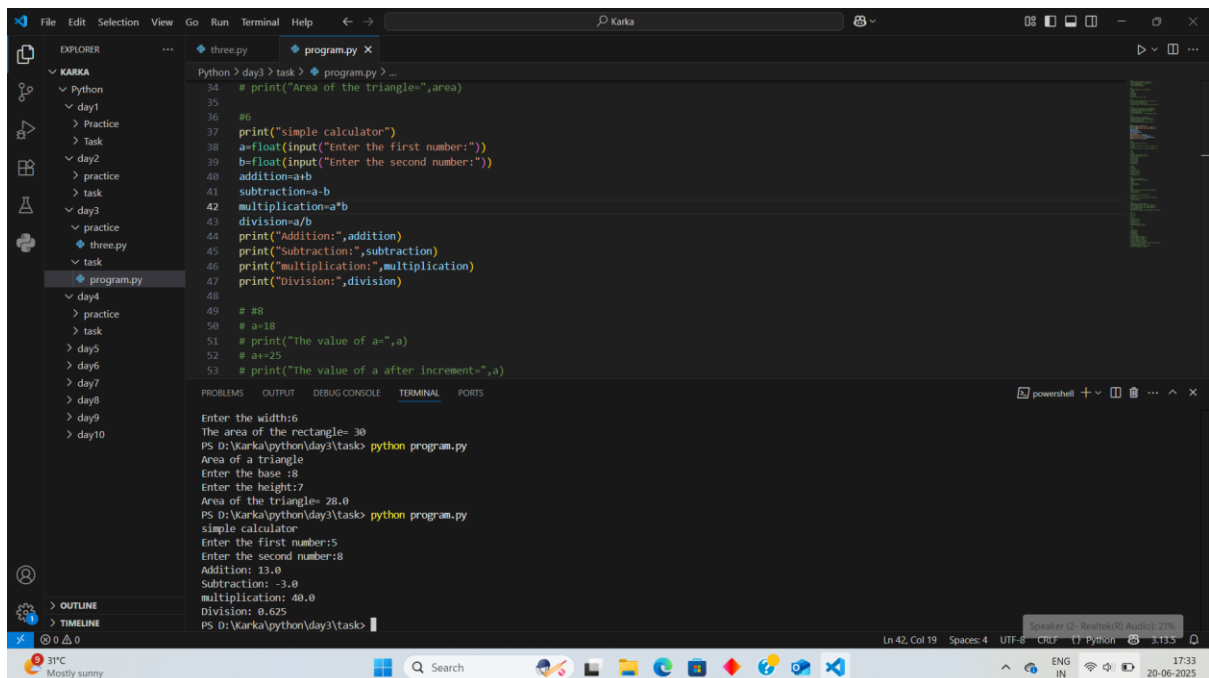
The screenshot shows a VS Code editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project structure with folders for 'KARKA', 'Python', 'day1', 'day2', 'day3', 'day4', 'day5', 'day6', 'day7', 'day8', 'day9', and 'day10'. The 'day3' folder is expanded, showing files 'three.py' and 'program.py'. The 'program.py' file is open in the editor, showing Python code for calculating the area of a circle, a rectangle, and a triangle, and a simple calculator. The terminal shows the output of running the program, including prompts for user input and the resulting calculations.

```
Python > day3 > task > program.py > ...
20 # print("Area of the circle=",area_of_circle)
21
22
23 # #4
24 # print("To find area of the rectangle")
25 # length=int(input("Enter the length:"))
26 # width=int(input("Enter the width:"))
27 # area=length*width
28 # print("The area of the rectangle=",area)
29
30 #5
31 print("Area of a triangle")
32 base=int(input("Enter the base :"))
33 height=int(input("Enter the height:"))
34 area=(height*base)/2
35 print("Area of the triangle=",area)
36
37 # #6
38 # print("simple calculator")
39 a=float(input("Enter the first number:"))
40 b=float(input("Enter the second number:"))
41 addition=a+b
42 subtraction=a-b
43 multiplication=a*b
44 division=a/b
45 print("Addition:",addition)
46 print("Subtraction:",subtraction)
47 print("multiplication:",multiplication)
48 print("Division:",division)
49
50 # #8
51 # a=18
52 # print("The value of a=",a)
53 # a+=25
54 # print("The value of a after increment=",a)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

The sum is 750
PS D:\Karka\python\day3\task> python program.py
To find the area of the circle
radius=4
Area of the circle= 50.24
PS D:\Karka\python\day3\task> python program.py
To find area of the rectangle
Enter the length:5
Enter the width:6
The area of the rectangle= 30
PS D:\Karka\python\day3\task> python program.py
Area of a triangle
Enter the base :8
Enter the height:7
Area of the triangle= 28.0
PS D:\Karka\python\day3\task>

Task6



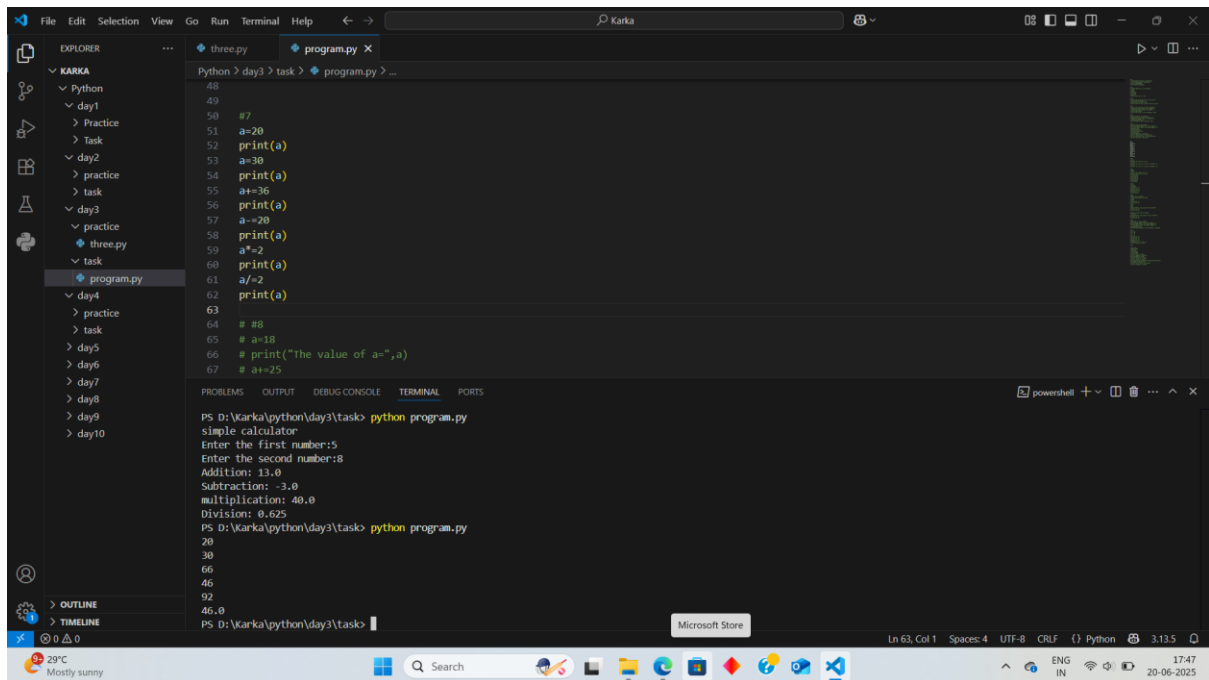
The screenshot shows a VS Code editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project structure with folders for 'KARKA', 'Python', 'day1', 'day2', 'day3', 'day4', 'day5', 'day6', 'day7', 'day8', 'day9', and 'day10'. The 'day3' folder is expanded, showing files 'three.py' and 'program.py'. The 'program.py' file is open in the editor, showing Python code for calculating the area of a triangle, a rectangle, and a triangle, and a simple calculator. The terminal shows the output of running the program, including prompts for user input and the resulting calculations.

```
Python > day3 > task > program.py > ...
34 # print("Area of the triangle=",area)
35
36 #6
37 print("simple calculator")
38 a=float(input("Enter the first number:"))
39 b=float(input("Enter the second number:"))
40 addition=a+b
41 subtraction=a-b
42 multiplication=a*b
43 division=a/b
44 print("Addition:",addition)
45 print("Subtraction:",subtraction)
46 print("multiplication:",multiplication)
47 print("Division:",division)
48
49 # #8
50 # a=18
51 # print("The value of a=",a)
52 # a+=25
53 # print("The value of a after increment=",a)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter the width:6
The area of the rectangle= 30
PS D:\Karka\python\day3\task> python program.py
Area of a triangle
Enter the base :8
Enter the height:7
Area of the triangle= 28.0
PS D:\Karka\python\day3\task> python program.py
simple calculator
Enter the first number:5
Enter the second number:8
Addition: 13.0
Subtraction: -3.0
multiplication: 40.0
Division: 0.625
PS D:\Karka\python\day3\task>

Task7

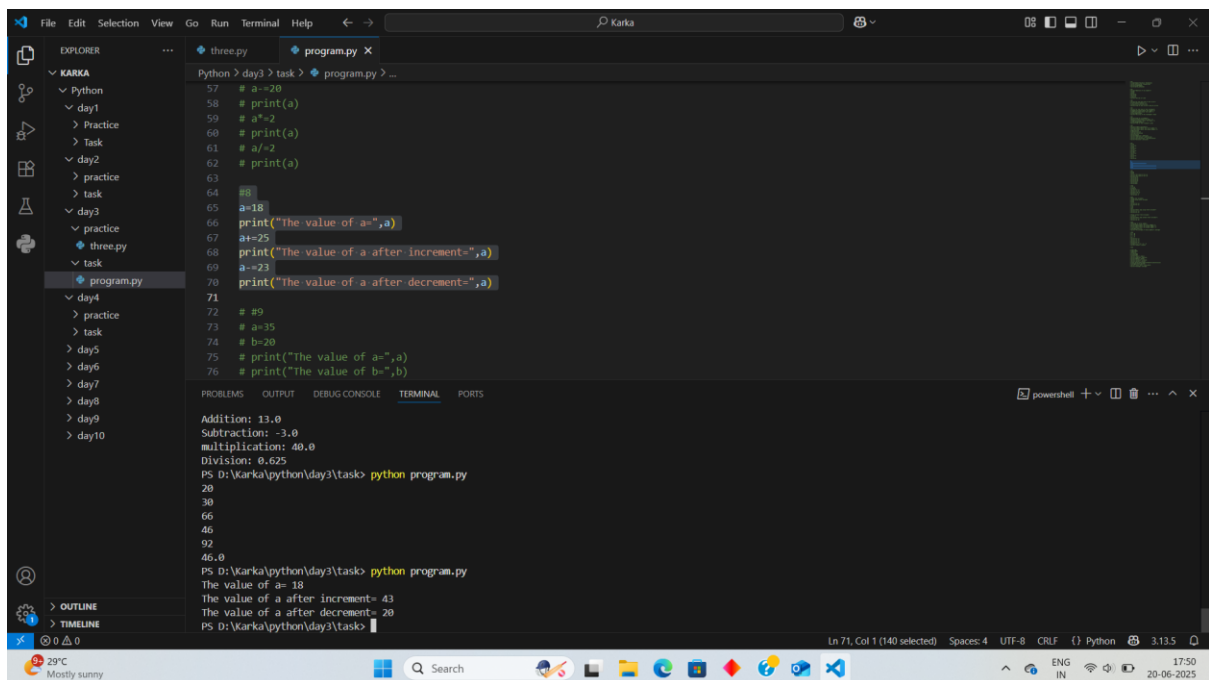


```
Python > day3 > task > program.py > ...
48
49
50 #7
51 a=20
52 print(a)
53 a=30
54 print(a)
55 a+=36
56 print(a)
57 a-=20
58 print(a)
59 a*=2
60 print(a)
61 a/=2
62 print(a)
63
64 # #8
65 # a=18
66 # print("The value of a=",a)
67 # a+=25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Karka\python\day3\task> python program.py
simple calculator
Enter the first number:5
Enter the second number:8
Addition: 13.0
Subtraction: -3.0
multiplication: 40.0
Division: 0.625
PS D:\Karka\python\day3\task> python program.py
20
30
66
46
92
46.0
PS D:\Karka\python\day3\task>

Task8



```
57 # a-=20
58 # print(a)
59 # a*=2
60 # print(a)
61 # a/=2
62 # print(a)
63
64 #8
65 a=18
66 print("The value of a=",a)
67 a+=25
68 print("The value of a after increment=",a)
69 a-=23
70 print("The value of a after decrement=",a)
71
72 # #9
73 # a=35
74 # b=20
75 # print("The value of a=",a)
76 # print("The value of b=",b)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Addition: 13.0
Subtraction: -3.0
multiplication: 40.0
Division: 0.625
PS D:\Karka\python\day3\task> python program.py
20
30
66
46
92
46.0
PS D:\Karka\python\day3\task> python program.py
The value of a= 18
The value of a after increment= 43
The value of a after decrement= 20
PS D:\Karka\python\day3\task>

Task9

Task10

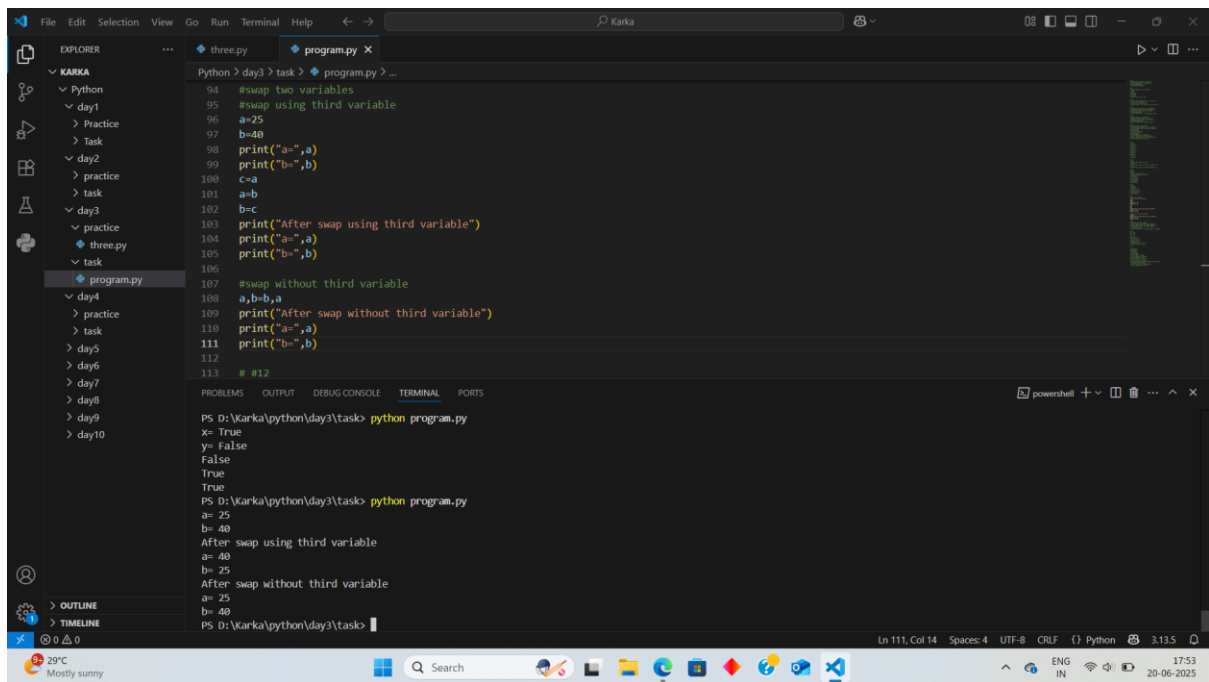
The screenshot shows a Windows IDE (VS Code) with a dark theme. The Explorer panel on the left shows a project structure for 'KARKA' with folders 'Python', 'day1', 'day2', 'day3', 'day4', 'day5', 'day6', 'day7', 'day8', 'day9', and 'day10'. The 'Python' folder is expanded, showing 'practice', 'task', and 'program.py'. The 'program.py' file is open in the editor, showing a Python script that swaps two variables and prints their values. The script is as follows:

```
83
84 #10
85 x=True
86 y=False
87 print("x=",x)
88 print("y=",y)
89 print(x and y)
90 print(x or y)
91 print(not y)
92
93 # #11
94 # swap two variables
95 # swap using third variable
96 # a=25
97 # b=40
98 # print("a=",a)
99 # print("b=",b)
100 # c=a
101 # a=b
102 # b=c
```

The terminal at the bottom shows the execution of the script. The command 'python program.py' is run, and the output is as follows:

```
PS D:\Karka\python\day3\task> python program.py
The value of a= 35
The value of b= 20
False
False
False
True
True
True
True
PS D:\Karka\python\day3\task> python program.py
x= True
y= False
False
True
True
PS D:\Karka\python\day3\task>
```

Task11



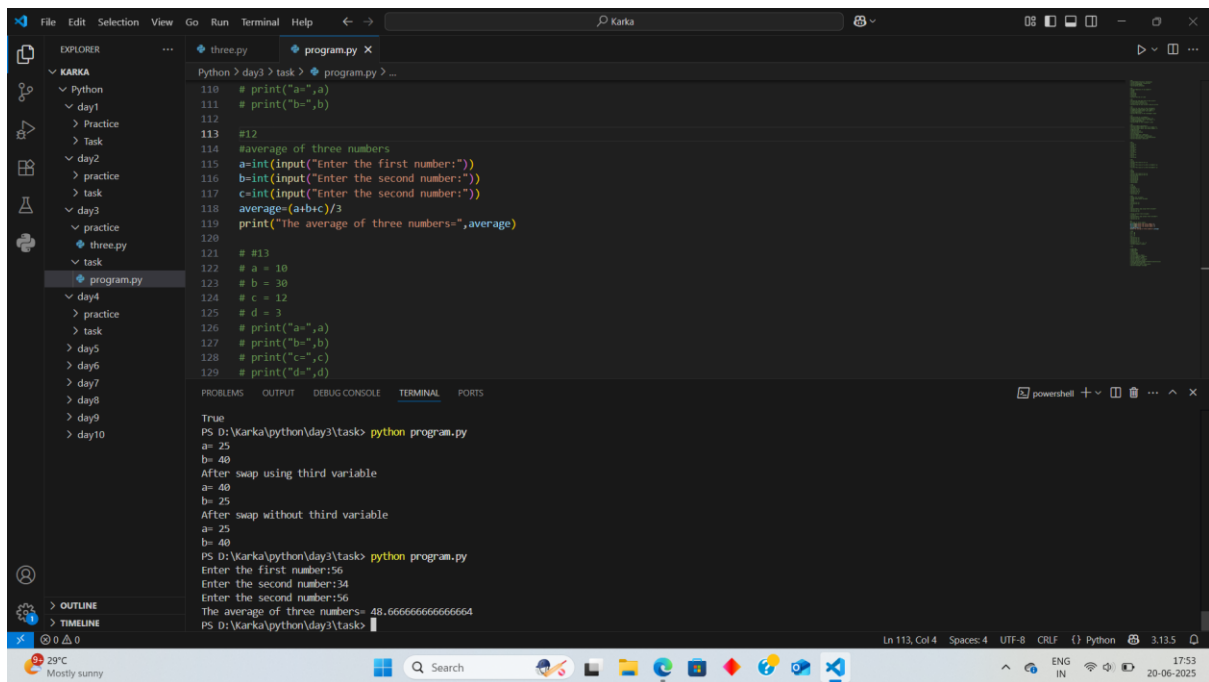
The screenshot shows the VS Code editor with a file explorer on the left. The file explorer shows a project structure with folders 'KARKA', 'Python', 'day1', 'day2', 'day3', 'day4', 'day5', 'day6', 'day7', 'day8', 'day9', and 'day10'. The 'day3' folder is expanded, showing 'three.py' and 'program.py'. The 'program.py' file is open in the editor. The code in 'program.py' is as follows:

```
Python > day3 > task > program.py > ...
94 #swap two variables
95 #swap using third variable
96 a=25
97 b=40
98 print("a=",a)
99 print("b=",b)
100 c=a
101 a=b
102 b=c
103 print("After swap using third variable")
104 print("a=",a)
105 print("b=",b)
106
107 #swap without third variable
108 a,b=b,a
109 print("After swap without third variable")
110 print("a=",a)
111 print("b=",b)
112
113 # #12
```

The terminal output shows the execution of the program:

```
PS D:\Karka\python\day3\task> python program.py
x= True
y= False
False
True
True
PS D:\Karka\python\day3\task> python program.py
a= 25
b= 40
After swap using third variable
a= 40
b= 25
After swap without third variable
a= 25
b= 40
PS D:\Karka\python\day3\task>
```

Task12



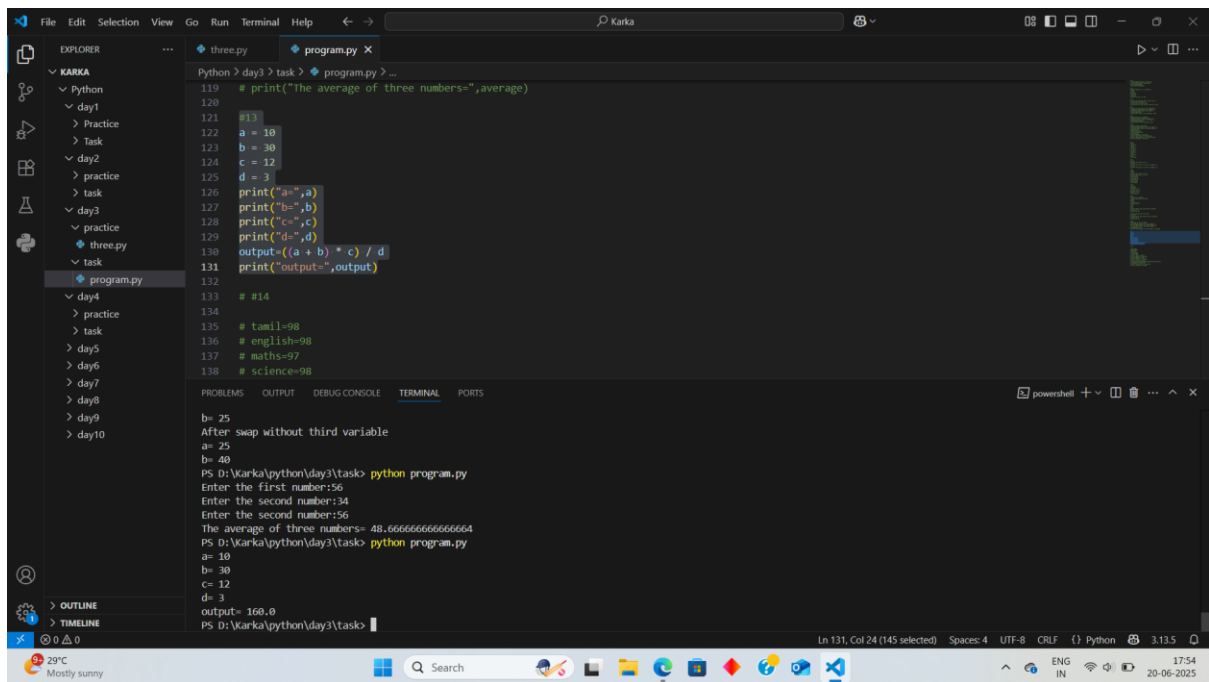
The screenshot shows the VS Code editor with a file explorer on the left. The file explorer shows a project structure with folders 'KARKA', 'Python', 'day1', 'day2', 'day3', 'day4', 'day5', 'day6', 'day7', 'day8', 'day9', and 'day10'. The 'day3' folder is expanded, showing 'three.py' and 'program.py'. The 'program.py' file is open in the editor. The code in 'program.py' is as follows:

```
Python > day3 > task > program.py > ...
110 # print("a=",a)
111 # print("b=",b)
112
113 #12
114 #average of three numbers
115 a=int(input("Enter the first number:"))
116 b=int(input("Enter the second number:"))
117 c=int(input("Enter the second number:"))
118 average=(a+b+c)/3
119 print("The average of three numbers=",average)
120
121 # #13
122 # a = 10
123 # b = 30
124 # c = 12
125 # d = 3
126 # print("a=",a)
127 # print("b=",b)
128 # print("c=",c)
129 # print("d=",d)
```

The terminal output shows the execution of the program:

```
True
PS D:\Karka\python\day3\task> python program.py
a= 25
b= 40
After swap using third variable
a= 40
b= 25
After swap without third variable
a= 25
b= 40
PS D:\Karka\python\day3\task> python program.py
Enter the first number:56
Enter the second number:34
Enter the second number:56
The average of three numbers= 48.666666666666664
PS D:\Karka\python\day3\task>
```

Task13

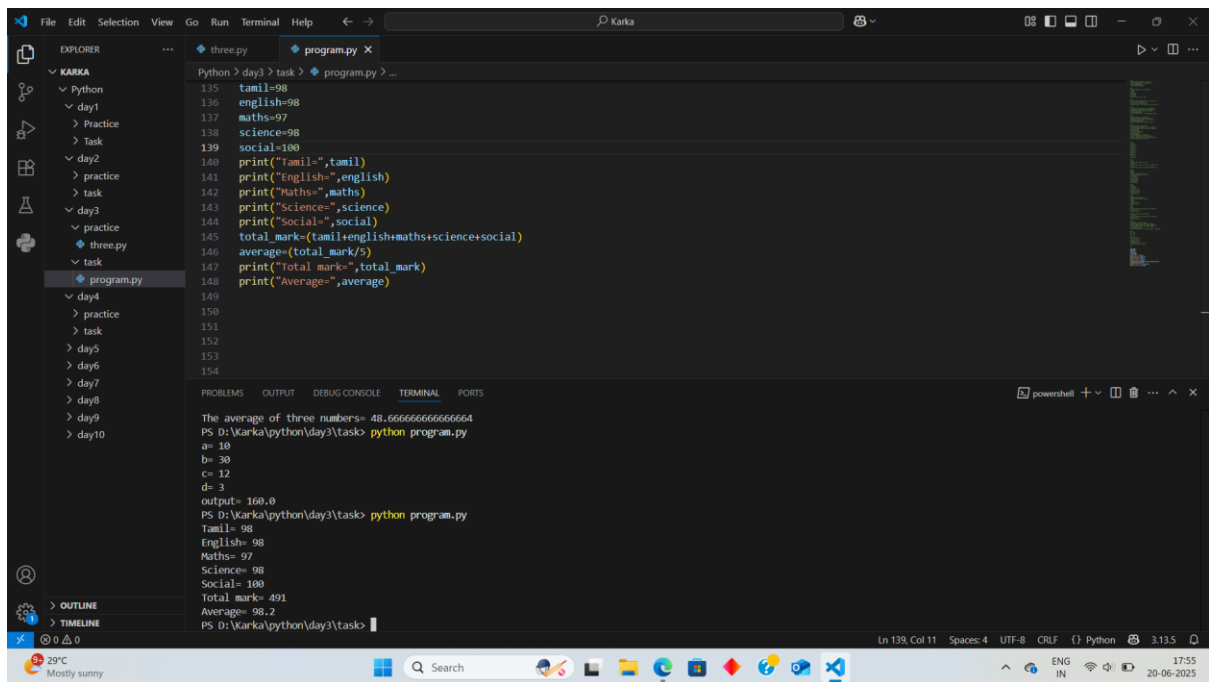


```
Python > day3 > task > program.py > ...
119 # print("The average of three numbers=",average)
120
121 #13
122 a = 10
123 b = 30
124 c = 12
125 d = 3
126 print("a=",a)
127 print("b=",b)
128 print("c=",c)
129 print("d=",d)
130 output=((a + b) * c) / d
131 print("output=",output)
132
133 # 14
134
135 # tamil=98
136 # english=98
137 # maths=97
138 # science=98
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
b= 25
After swap without third variable
a= 25
b= 40
PS D:\Karka\python\day3\task> python program.py
Enter the first number:56
Enter the second number:34
Enter the second number:56
The average of three numbers= 48.666666666666664
PS D:\Karka\python\day3\task> python program.py
a= 10
b= 30
c= 12
d= 3
output= 160.0
PS D:\Karka\python\day3\task>
```

Task14



```
Python > day3 > task > program.py > ...
135 tamil=98
136 english=98
137 maths=97
138 science=98
139 social=100
140 print("Tamil=",tamil)
141 print("English=",english)
142 print("Maths=",maths)
143 print("Science=",science)
144 print("Social=",social)
145 total_mark=(tamil+english+maths+science+social)
146 average=(total_mark/5)
147 print("Total mark=",total_mark)
148 print("Average=",average)
149
150
151
152
153
154
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
The average of three numbers= 48.666666666666664
PS D:\Karka\python\day3\task> python program.py
a= 10
b= 30
c= 12
d= 3
output= 160.0
PS D:\Karka\python\day3\task> python program.py
Tamil= 98
English= 98
Maths= 97
Science= 98
Social= 100
Total mark= 491
Average= 98.2
PS D:\Karka\python\day3\task>
```