

```
Python > day6 > task > program.py > ...
1 #1
2 num=int(input("Enter the number:"))
3 if(num>0):
4     print(num,"is a positive number")
5 else:
6     print(num,"is a negative number")
7
8 # #2
9 a=int(input("Enter a value:"))
10 # if (a%2==0):
11 #     print(a,"is a Even number")
12 # else:
13 #     print(a,"is a Odd number")
14
```

PROBLEMS 2 OUTPUT TERMINAL PORTS

PS D:\Karka\python\day6> cd task
PS D:\Karka\python\day6\task> python program.py
Enter a value:34
34 is a Even number
PS D:\Karka\python\day6\task> python program.py
Enter the number:4
4 is a positive number
PS D:\Karka\python\day6\task>

```
5 # else:
6 #     print(num,"is a negative number")
7
8 #2
9 a=int(input("Enter a value:"))
10 if (a%2==0):
11     print(a,"is a Even number")
12 else:
13     print(a,"is a Odd number")
14
15 # #3
16 # def power():
17 #     a=int(input("Enter the base value:"))
18 #     b=int(input("Enter the exponent value:"))
```

PROBLEMS 2 OUTPUT TERMINAL PORTS

34 is a Even number
PS D:\Karka\python\day6\task> python program.py
Enter the number:4
4 is a positive number
PS D:\Karka\python\day6\task> python program.py
Enter a value:39
39 is a Odd number
PS D:\Karka\python\day6\task>

This screenshot shows the Visual Studio Code editor with a Python file named `program.py` open. The file is located in the `task` directory under `day6`. The code defines a `power()` function that takes a base value and an exponent as input and returns the result of `a**b`. The terminal shows the execution of the script, where the user enters a base value of 39 and an exponent of 2, resulting in the output "39 is a Odd number".

```
14
15
16 def power():
17     a=int(input("Enter the base value:"))
18     b=int(input("Enter the exponent value:"))
19     exp=a**b
20     print("The power of the given number is:",exp)
21     return
22 power()
23
24
```

PROBLEMS 2 OUTPUT TERMINAL PORTS

PS D:\Karka\python\day6\task> python program.py
Enter a value:39
39 is a Odd number
PS D:\Karka\python\day6\task> python program.py
Enter the base value:5
Enter the exponent value:2
The power of the given number is: 25
PS D:\Karka\python\day6\task>

This screenshot shows the Visual Studio Code editor with a Python file named `program.py` open. The file is located in the `task` directory under `day6`. The code defines a function that takes two numbers, `x` and `y`, and compares them. It prints "x is greater than y" if `x > y`, "y is greater than x" if `y > x`, and "Both are equal" if they are equal. The terminal shows the execution of the script, where the user enters a base value of 5 and an exponent of 2, resulting in the output "The power of the given number is: 25".

```
23
24
25 x=int(input("Enter x value:"))
26 y=int(input("Enter y value:"))
27 if x>y:
28     print(x,"is greater than",y)
29 elif y>x:
30     print(y,"is greater than",x)
31 else:
32     print("Both are equal")
33
34
35
36
```

PROBLEMS OUTPUT TERMINAL PORTS

Enter the base value:5
Enter the exponent value:2
The power of the given number is: 25
PS D:\Karka\python\day6\task> python program.py
Enter x value:44
Enter y value:56
56 is greater than 44
PS D:\Karka\python\day6\task>

The screenshot shows the Visual Studio Code editor with a file explorer on the left. The file explorer shows a project named 'KARKA' with a folder 'Python' containing subfolders 'day3', 'day4', 'day5', and 'day6'. Each day folder contains a 'task' subfolder with a 'program.py' file. The 'program.py' file in the 'day6' folder is selected and open in the editor. The code in the editor is a Python program that checks if a year is a leap year. It prompts the user to 'Enter the year:' and prints the result. The terminal at the bottom shows the execution of the program with inputs 2016, 2004, and 2004, and outputs '2016 is not a leap year', '2004 is not a leap year', and '2004 is a leap year' respectively. The status bar at the bottom indicates the file is at line 42, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, Python syntax, and version 3.13.5.

```
Python > day6 > task > program.py > ...
33
34 #5
35
36 #leap year
37 year=int(input("Enter the year:"))
38 if (year%4==0 and year%100!=0) or (year%400):
39     print(year,"is a leap year")
40 else:
41     print(year,"is not a leap year")
42
43
```

PROBLEMS OUTPUT TERMINAL PORTS

2016 is not a leap year
PS D:\Karka\python\day6\task> python program.py
Enter the year:2004
2004 is not a leap year
PS D:\Karka\python\day6\task> python program.py
Enter the year:2004
2004 is a leap year
PS D:\Karka\python\day6\task>

Ln 42, Col 1 Spaces: 4 UTF-8 CRLF () Python 3.13.5

The screenshot shows the Visual Studio Code editor with the same file explorer as the first screenshot. The 'program.py' file in the 'day6' folder is selected and open in the editor. The code in the editor is a Python program that checks if a score is within a certain range and prints the corresponding grade. It prompts the user to 'Enter the score:' and prints the result. The terminal at the bottom shows the execution of the program with inputs 80 and 81, and outputs 'F grade' and 'B grade' respectively. The status bar at the bottom indicates the file is at line 52, column 13, with 4 spaces, UTF-8 encoding, CRLF line endings, Python syntax, and version 3.13.5.

```
Python > day6 > task > program.py > ...
44
45 score=int(input("Enter the score:"))
46 if score>=90 and score<100:
47     print("A grade")
48 elif score>=80 and score<89:
49     print("B grade")
50 elif score>=70 and score<79:
51     print("C grade")
52 elif score>=60 and score<69:
53     print("D grade")
54 else:
55     print("F grade")
56
57
```

PROBLEMS OUTPUT TERMINAL PORTS

2004 is a leap year
PS D:\Karka\python\day6\task> python program.py
Enter the score:80
F grade
PS D:\Karka\python\day6\task> python program.py
Enter the score:81
B grade
PS D:\Karka\python\day6\task>

Ln 52, Col 13 Spaces: 4 UTF-8 CRLF () Python 3.13.5

The screenshot shows the Visual Studio Code editor with a file explorer on the left. The file explorer shows a project structure with folders for 'KARKA', 'Python', 'day3', 'day4', 'day5', 'day6', and 'day7'. The 'day6' folder is expanded, showing 'practice' and 'task' subfolders. The 'task' folder contains 'program.py'. The 'program.py' file is open in the editor, showing a Python script that takes user input for age and prints messages based on age ranges. The terminal at the bottom shows the command 'python program.py' being executed, and the output 'Enter your age:69' and 'D grade'.

```
Python > day6 > task > program.py > ...
56
57 #7
58
59 age=int(input("Enter your age:"))
60 if age<16:
61     print("You can't drive")
62 elif age>=16 and age<=17:
63     print("You can drive but not vote")
64 elif age>=18 and age<=24:
65     print("You can vote but not rent a car")
66 elif age>25:
67     print("You can do pretty much anything")
68
69
```

PROBLEMS OUTPUT TERMINAL PORTS

F grade
PS D:\Karka\python\day6\task> python program.py
Enter the score:69
D grade
PS D:\Karka\python\day6\task> python program.py
Enter your age:20
You can vote but not rent a car
PS D:\Karka\python\day6\task>

The screenshot shows the Visual Studio Code editor with the same file explorer as the first image. The 'program.py' file is open in the editor, showing a Python script that takes user input for a number and prints 'FizzBuzz' if the number is divisible by both 3 and 5, 'Fizz' if it is only divisible by 3, 'Buzz' if it is only divisible by 5, and the number itself if it is not divisible by either. The terminal at the bottom shows the command 'python program.py' being executed, and the output 'Enter your age:20' and 'You can vote but not rent a car'.

```
72 if (x%3==0 and x%5==0):
73     print("FizzBuzz")
74 elif x%3==0:
75     print("Fizz")
76 elif x%5==0:
77     print("Buzz")
78 else:
79     print("This number is not divisible by 3 and 5")
80
81
82
83
84
85
```

PROBLEMS OUTPUT TERMINAL PORTS

D grade
PS D:\Karka\python\day6\task> python program.py
Enter your age:20
You can vote but not rent a car
PS D:\Karka\python\day6\task> python program.py
Enter a number:45
FizzBuzz
PS D:\Karka\python\day6\task>

