



TRACE TABLE				
	RAM			
Statement	a	b	c	Output
a = int(input("Enter first number: "))	3			
b = int(input("Enter second number: "))		7		
c = int(input("Enter third number: "))			5	
if a == b or a == c:		F	F	
elif a < b and a > c:		F	F	
elif b < a and b > c:		F	T	
elif a > b and a < c:		F	T	
elif a < b and b < c:		T	F	
Else: (a < c and b > c)	T	T		The median is 5

```
Median.py > ...
1  print("\nFinding the median of 3 numbers\n")
2
3  a: int = int(input("Enter first number: "))
4  b: int = int(input("Enter second number: "))
5  c: int = int(input("Enter third number: "))
6
7  if a == b or a == c:
8      median: int = a
9  elif a < b and a > c:
10     median: int = a
11 elif b < a and b > c:
12     median: int = b
13 elif a > b and a < c:
14     median: int = a
15 elif a < b and b < c:
16     median: int = b
17 else:
18     median: int = c
19
20
21
22 print("\nThe median is", median)
```

0.exe c:/Users/melan/Desktop/Algorithms/Assy1/Median.py

Finding the Median of 3 Numbers

Enter first number: 3
Enter second number: 7
Enter third number: 5

The median is 5
PS C:\Users\melan\Desktop\Algorithms\Assy1>

Ln 1, Col 35 Spaces: 4 UTF-8 CRLF Python 3.10.9 64-bit (microsoft store)

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The screenshot shows a Windows IDE interface. At the top, there are tabs for "Get Started", "Median.py", and "Median.drawio". The main window displays the output of running a Python script named "Median.py". The terminal shows the following sequence of commands and outputs:

```
PS C:\Users\melan\Desktop\Algorithms\Assy1> cd c:/Users/melan/Desktop/Algorithms/Assy1
PS C:\Users\melan\Desktop\Algorithms\Assy1> & C:/Users/melan/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/melan/Desktop/Algorithms/Assy1/Median.py
Finding the Median of 3 Numbers
Enter first number: 3
Enter second number: 4
Enter third number: 5

The median is 4
PS C:\Users\melan\Desktop\Algorithms\Assy1> cd c:/Users/melan/Desktop/Algorithms/Assy1
PS C:\Users\melan\Desktop\Algorithms\Assy1> & C:/Users/melan/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/melan/Desktop/Algorithms/Assy1/Median.py

Finding the Median of 3 Numbers
Enter first number: 7
Enter second number: 2
Enter third number: 5

The median is 5
PS C:\Users\melan\Desktop\Algorithms\Assy1> cd c:/Users/melan/Desktop/Algorithms/Assy1
PS C:\Users\melan\Desktop\Algorithms\Assy1> & C:/Users/melan/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/melan/Desktop/Algorithms/Assy1/Median.py

Finding the Median of 3 Numbers
Enter first number: 4
Enter second number: 4
Enter third number: 2

The median is 4
PS C:\Users\melan\Desktop\Algorithms\Assy1>
```

At the bottom right of the IDE window, there is a watermark that says "Activate Windows Go to Settings to activate Windows."