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**GitHub Link:** <https://github.com/Beshair-Khan/Python-Lab>

## Lab 04

**Task 1: Basic Task:** Write a program that checks if a given number is positive, negative, or zero.

```
num = float(input("Enter a number: "))
if num > 0:
    print("The number is positive.")
elif num < 0:
    print("The number is negative.")
else:
    print("The number is zero.")
```

## Output

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\Uni programs\Lab manuals> & D:/Python/python.exe "d:/Uni programs/Lab manuals/lab task1.py"
Enter a number: 5
The number is positive.
PS D:\Uni programs\Lab manuals> |
```

**Task 2: Intermediate Task:** Write a program that takes user input and determines whether it's even or odd.

```
num = int(input("Enter a number: "))
if num % 2 == 0:
    print("The number is even.")
else:
    print("The number is odd.")
```

## Output

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\Uni programs\Lab manuals> & D:/Python/python.exe "d:/Uni programs/Lab manuals/lab task1.py"
Enter a number: 6
The number is even.
PS D:\Uni programs\Lab manuals> 
```

**Task 3: Advanced Task:** Create a program that asks user to print:

"Excellent" if marks are above 80

"Good" if marks are between 60 and 80

"Needs Improvement" if marks are below 60

```
marks = float(input("Enter your marks: "))
if marks > 80:
    print("Excellent")
elif 60 <= marks <= 80:
    print("Good")
else:
    print("Needs Improvement")
```

## Output

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\Uni programs\Lab manuals> & D:/Python/python.exe "d:/Uni programs/Lab manuals/lab task1.py"
Enter your marks: 99
Excellent
PS D:\Uni programs\Lab manuals> 
```