Name: **PARAS RATHI**

Roll No: **BIT-24S-007**

Lab 5:

Task 1:

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

Program:

```python
number = float(input("Enter a number: "))

if number > 0:
    print("The number is positive.")
elif number < 0:
    print("The number is negative.")
else:
    print("The number is zero.")
```

```
Enter a number:  2
The number is positive.
```

Task 2:

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

Program:

```
]: number = int(input("Enter a number: "))

    if number % 2 == 0:
        print("The number is even.")
    else:
        print("The number is odd.")
```

```
Enter a number:  7
The number is odd.
```

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

Program:

```
|: marks = float(input("Enter your marks: "))

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

```
Enter your marks:  55
Needs Improvement
```