

## Lab no.05

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### Task 01:

Q) 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.")
```

```
Enter a number: -909
The number is negative.
```

### Task 02:

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

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

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

```
Enter a number: 20
The number is even.
```

### Task 03:

Q) 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")
```

```
Enter your marks: 90
Excellent
Enter your marks: 70
Good
Enter your marks: 50
Needs Improvement
```