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DEPARTMENT   :   INFORMATION TECHNOLOGY

SUBJECT   :   ARTIFICIAL TECHNOLOGY

LAB:5

TASK:1

BASIC TASK(Alternative version)

```python
1  def check_number(n):
2      if n > 0:
3          return "Positive"
4      elif n < 0:
5          return "Negative"
6      else:
7          return "Zero"
8
9  number = float(input("Enter a number: "))
10 result = check_number(number)
11 print(f"The number is {result}.")
12
```

output

```
Enter a number: -99
The number is Negative.

=== Code Execution Successful ===
```

TASK:2

INTERMEDIATE (Alternative version)

```python
num = int(input("Enter an integer: "))

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

OUTPUT

```
Enter an integer: 23
The number is odd.

=== Code Execution Successful ===
```

TASK:3

ADVANCED (Classify student performance based on marks)

```python
marks = float(input("Enter your marks (0-100): "))

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

output

```
Enter your marks (0-100): 75
Good

=== Code Execution Successful ===
```