else_elif_31_08

August 31, 2021

```python
[1]: num = input("Enter any number: ")
     num = float(num)
     if num > 0:
         print("Number is positive")
     if num < 0:
         print("Number is negative")
     if num == 0:
         print("N P N N")
```

```
Enter any number: 12.45
Number is positive
```

```python
[3]: #else (at lease one condition will be executed, and in this case exactly one␣
      ↪will always be
     #executed.)
     num = float(input("Enter any number: "))
     if num > 0:
         print("Number is positive")
     else:
         print("Number is negaitve")
```

```
Enter any number: 0
Number is negaitve
```

```python
[5]: #odd-even number
     num = int(input("Enter any integer: "))
     if num % 2 == 0:
         print("Even number")
     else:
         print("Odd number")
```

```
Enter any integer: 0
Even number
```

```python
[6]: # elif
     num = float(input("Enter any number: "))
     if num > 0:
         print("Number is positive")
```

```python
    elif num < 0:
        print("Number is negative")
    else:
        print("N P N N")
```

```
Enter any number: -34.56
Number is negative
```

```python
[22]:  #Provide grade for the marks
       # N < 0, N > 100: Incorrect Input
       # N >= 90: A
       # N >= 75, N < 90: B
       # N >= 60, N < 75: C
       # N >= 40, N < 60: D
       # N < 40, F

       marks = float(input("Enter your marks: "))
       if marks > 100 or marks < 0:
           print("Invalid input")
       elif marks < 40:
           print("Grade F")
       elif marks < 60:
           print("Grade D")
       elif marks < 75:
           print("Grade C")
       elif marks < 90:
           print("Grade B")
       else:
           print("Grade A")
```

```
Enter your marks: 120
Invalid input
```

```python
[23]:  True and True
```

```
[23]:  True
```

```python
[17]:  2 > 1 and 4 > 7
```

```
[17]:  False
```

```python
[18]:  True or False
```

```
[18]:  True
```

```python
[19]:  False or False
```

[19]: False

[ ]: