

Assignment NO: 2

1) Check if a number is positive

```
num = int(input("Enter a number: "))
if num > 0:
    print("Positive")
```

2) Check if temperature is hot

```
temperature = float(input("Enter the temperature: "))
if temperature > 30:
    print("Hot day!")
```

3) Check if number is even

```
num = int(input("Enter a number to check if it's even: "))
if num % 2 == 0:
    print("Even number")
```

4) Check if number is even or odd

```
num = int(input("Enter a number to check even or odd: "))
if num % 2 == 0:
    print("Even")
else:
    print("Odd")
```

5) Check voting eligibility

```
age = int(input("Enter your age: "))
if age >= 18:
    print("Eligible to vote")
else:
    print("Not eligible to vote")
```

6) Password check

```
password = input("Enter the password: ")
if password == "admin123":
    print("Access Granted")
else:
    print("Access Denied")
```

7) Positive, Negative, or Zero

```
num = float(input("Enter a number: "))
if num > 0:
    print("Positive")
elif num < 0:
    print("Negative")
else:
    print("Zero")
```

8) Grading system

```
score = int(input("Enter your score (0-100): "))
if score >= 90:
    print("A")
elif score >= 80:
    print("B")
elif score >= 70:
    print("C")
elif score >= 60:
    print("D")
else:
    print("F")
```

9) Leap year check

```
year = int(input("Enter a year: "))
if (year % 400 == 0) or (year % 4 == 0 and year % 100 != 0):
    print("Leap year")
else:
    print("Not a leap year")
```

10) Greeting based on time

```
time = int(input("Enter current time in 24-hour format (0-23): "))
if 5 <= time < 12:
    print("Good Morning")
elif 12 <= time < 17:
    print("Good Afternoon")
elif 17 <= time < 21:
    print("Good Evening")
else:
    print("Good Night")
```