

Conditional Statements:(if,if-else, if-elif-else)

#Ex-1

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

```
if num>0:
```

```
    print("The number is positive")
```

Output:

Enter a number:15

The number is positive

#ex-2

```
if num%2==0:
```

```
    print("Even")
```

```
else:
```

```
    print("Odd")
```

Output:

Enter a number:20

Even

#ex-3

```
per=float(input("Enter your percentage:"))
```

```
if per>=75:
```

```
    print("Distinction")
```

```
elif per>=60 and per<=74:
```

```
    print("First class")
```

```
elif per>=50 and per<=59:
```

```
    print("Second class")
```

```
else:
```

```
    print(Fail)
```

Output:

Enter your percentage:99

Distinction

#4

```
marks = int(input("Enter your marks: "))
```

```
if marks >= 90 and marks <= 100:
```

```
    print("Grade: A+")
```

```
elif marks >= 80:
```

```
    print("Grade: A")
```

```
elif marks >= 70:
```

```
    print("Grade: B")
```

```
elif marks >= 60:
```

```
    print("Grade: C")
```

```
else:
```

```
    print("Grade: F")
```

Output:

Enter your marks: 82

Grade: A

#5

```
age = int(input("Enter your age: "))
```

```
if age >= 0 and age <= 12:
```

```
    print("Category: Child")
```

```
elif age <= 17:
```

```
    print("Category: Teen")
```

```
elif age <= 59:
```

```
    print ("Category: Adult")
```

```
else:
```

```
    print ("Category: Senior Citizen")
```

Output:

Enter your age: 20

Category: Adult

#6

```
year = int (input("Enter a year: "))
```

```
if (year % 4 == 0) and (year % 100 != 0 or year % 400 == 0):
```

```
    print ("Leap year")
```

```
else:
```

```
    print ("Not a leap year")
```

Output:

Enter a year: 2004

Leap year

#7

```
color = input("Enter traffic light color: ").lower()
```

```
if color == "red":
```

```
    print("Stop")
```

```
elif color == "yellow":
```

```
    print("Get Ready")
```

```
elif color == "green":
```

```
    print("Go")
```

```
else:
```

```
    print("Invalid color")
```

Output:

Enter traffic light color: yellow

Get Ready

