If Else Programs

In [24]:
```python
#Leap Year
year=int(input("Enter the year "))
if (year%4)==0:
    if (year%100)==0:
        if (year%400)==0:
            print("Leap year")
        else:
            print("Not a leap year")
    else:
        print("Leap year")
else:
    print("Not a leap year")
```

```
Enter the year 1900
Not a leap year
```

In [25]:
```python
# Number to Day
x=int(input("Enter the number "))
if x==1:
    print("Sunday")
elif x==2:
    print("Monday")
elif x==3:
    print("Tuesday")
elif x==4:
    print("Wednesday")
elif x==5:
    print("Thursday")
elif x==6:
    print("Friday")
elif x==7:
    print("Saturday")
else:
    print("Enter numbers from 1 to 7 only ")
```

```
Enter the number 6
Friday
```

In [19]:
```python
# Number to Corresponding Month
Month=int(input("Enter the number between 1 & 12: "))
if Month==1:
    print("JAN")
elif Month==2:
    print("FEB")
elif Month==3:
    print("MAR")
elif Month==4:
    print("APR")
elif Month==5:
    print("MAY")
elif Month==6:
    print("JUNE")
elif Month==7:
    print("JULY")
elif Month==8:
    print("AUG")
elif Month==9:
    print("SEP")
elif Month==10:
    print("OCT")
elif Month==11:
    print("NOV")
elif Month==12:
    print("DEC")
else:
    print("Enter number between 1 & 12 only")
```

```
Enter the number between 1 & 12: 5
MAY
```

In [8]:
```python
# Grade
m=int(input("Enter the mark "))
if m>=90:
    print("A")
elif m>=75 and m<90:
    print("B")
elif m>=65 and m<75:
    print("C")
elif m>=55 and m<65:
    print("D")
else:
    print("F")
```

```
Enter the mark 90
A
```

In [9]:
```python
#Calculator
x=input("Enter the operator")
a=int(input("Enter the input "))
b=int(input("Enter the input "))
if x=="+":
    print(a+b)
elif x=="-":
    print(a-b)
elif x=="*":
    print(a*b)
elif x=="/":
    print(a//b)
else:
    print('null')
```

```
Enter the operator/
Enter the input 15
Enter the input 5
3
```

In [11]:
```python
# Hacker rank problem: Print Weird for Odd Number
n=int(input('Enter the number: '))
if n%2!=0:
    print("Weird")
elif n%2==0 and 6<=n<=20:
    print("Weird")
else:
    print("Not weird")
```

```
Enter the number: 20
Weird
```

In [12]:
```python
# Hacker Rank Problem (Same as above)
n=int(input("Enter the number "))
if n%2!=0:
    print("Weied")
else:
    if n>=2 and n<=5:
        print("Not weird")
    elif n>=6 and n<=20:
        print("Weird")
    elif n>20:
        print("Not weird")
```

```
Enter the number 24
Not weird
```

In [14]:
```python
#Greatest Number
a=int(input("Enter the number "))
b=int(input("Enter the number "))
c=int(input("Enter the number "))
if a>b and a>c:
    print("Greatest number is: ",a)
elif b>a and b>c:
    print("Greatest number is: ",b)
else:
    print("Greatest number is: ",c)
```

```
Enter the number 78
Enter the number 12
Enter the number 32
Greatest number is:  78
```

In [18]:
```python
# Bonus for Salary > 10000
Salary=int(input("Enter the amount "))
if Salary>10000:
    Bonus=Salary*(10/100)
    print("Salary with Bonus", Salary,"+", Bonus,"=",Salary+Bonus)
else:
    print("Not eligible for Bonus", Salary)
```

```
Enter the amount 15000
Salary with Bonus 15000 + 1500.0 = 16500.0
```

In [21]:
```python
# Eligibility to vote
age=int(input("Enter your age: "))
if age>=18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote.")
```

```
Enter your age: 34
You are eligible to vote.
```

In [22]:
```python
# Ascendind Order
a=int(input("Enter the number "))
b=int(input("Enter the number "))
c=int(input("Enter the number "))
if a>b:
    a,b=b,a
if a>c:
    a,c=c,a
if b>c:
    b,c=c,b
print(a,b,c)
```

```
Enter the number 10
Enter the number 50
Enter the number 5
5 10 50
```

In [23]:
```python
# Check if 2 numbers are equal
a=int(input("Enter the number "))
b=int(input("Enter the number "))
if a==b:
    print("The numbers are equal")
else:
    print("The numbers are not equal")
```

```
Enter the number 5
Enter the number 5
The numbers are equal
```

In [ ]: