In [1]:
```
sec=int(input("Enter the number of seconds: "))
min=sec//60
remsec=sec%60
print(sec," seconds is ",min," minutes and ",remsec," seconds")
```

```
Enter the number of seconds: 333
333  seconds is  5  minutes and  33  seconds
```

In [3]:
```
inp=int(input("Enter a number: "))
fac=inp
for k in range((inp-1),1,-1):
        fac*=k
print(inp," factorial is: ",fac)
```

```
Enter a number: 7
7  factorial is:  5040
```

In [4]:
```
from math import sin, cos, pi, radians

deg=int(input("Enter an angle in degrees: "))
print("The sin of the angle is :",round(sin(deg*pi/180),5))
```

```
Enter an angle in degrees: 57
The sin of the angle is : 0.83867
```

In [5]:
```
temp=int(input("Enter the temperature: "))
flag=int(input("What unit is the temperature in? \n 0 = Celsius \n 1 = Fahrenheit
if flag == 0:
    unit1= "Celsius"
    unit2= "Fahrenheit"
    ftemp=round((((9/5)*temp)+32),3)
elif flag == 1:
    unit2= "Celsius"
    unit1= "Fahrenheit"
    ftemp=round((5/9)*(temp-32),3)
else:
    print("Try again")
print(temp," ",unit1, " = ",ftemp," ",unit2)
```

```
Enter the temperature: 70
What unit is the temperature in?
 0 = Celsius
 1 = Fahrenheit1
70   Fahrenheit  =  21.111   Celsius
```

In [6]:
```
cred=int(input("Enter the number of credits: "))
if cred<=23:
    print("The student is a freshman")
elif cred>=24 and cred<=53:
    print("The student is a sophomore")
elif cred>=54 and cred<=83:
    print("The student is a junior")
elif cred>=84:
    print("The student is a senior")
else:
    print("Try again")
```

```
Enter the number of credits: 65
The student is a junior
```

In [7]:
```
year=int(input("Enter the year: "))
if year%4==0:
    if year%100==0 and year%400!=0:
        print("not leap year")
    elif year%100==0 and year%400==0:
        print("leap year")
    else:
        print("leap year")
elif year%4!=0:
    print("not leap year")
```

```
Enter the year: 2000
leap year
```

In [ ]: