```
1. year=int(input("Enter year: "))
if year % 4 == 0:
 print("{} is a leap year".format(year))
else:
    print("{} is not a leap year".format(year))
2.num = int(input("Enter a number: "))
sum = 0
temp = num
while temp > 0:
    digit = temp%10
    sum += digit ** 3
    temp //= 10
if num == sum:
    print(num,"is an armstrong mnumber")
else:
    print(num, "is not an armstrong number")
3. def TowerOfHanoi(n , source, destination, auxiliary):
    if n==1:
        print "Move disk 1 from source", source, "to
destination", destination
        return
    TowerOfHanoi(n-1, source, auxiliary, destination)
    print "Move disk",n,"from source",source,"to
destination", destination
```

```
TowerOfHanoi(n-1, auxiliary, destination, source)
n = 4
TowerOfHanoi(n,'A','B','C') x = 10
4.
x = 10
v = 5
x = x * y
y = x // y;
x = x // y;
print("After Swapping: x =",
                x, "y = ", y);
5.
num1 = int(input('Enter First number: '))
num2 = int(input('Enter Second number '))
add = num1 + num2
dif = num1 - num2
mul = num1 * num2
div = num1 / num2
floor div = num1 // num2
power = num1 ** num2
modulus = num1 % num2
print('Sum of ',num1 ,'and' ,num2 ,'is :',add)
print('Difference of ',num1 ,'and' ,num2 ,'is :',dif)
print('Product of' ,num1 ,'and' ,num2 ,'is :',mul)
print('Division of ',num1 ,'and' ,num2 ,'is :',div)
print('Floor Division of
',num1 ,'and' ,num2 ,'is :',floor_div)
print('Exponent of ',num1 ,'and' ,num2 ,'is :',power)
print('Modulus of ',num1 ,'and' ,num2 ,'is :',modulus)
```