

```
def isisomorphic(s,t):
    if (len(s)!=len(t)):
        return False
    else:
        c,d={},{}
        for i in range(len(s)):
            a,b=s[i],t[i]
            if(a not in c):
                c[a]=b
            if(b not in d):
                d[b]=a
            if(c[a]!=b or d[b]!=a):
                return False
        return True

s=input("Enter a string S=:")
t=input("Enter a string T=:")
print(isisomorphic(s,t))
```

```
a=int(input("Enter the numbers of elements"))
if(a>0):
    b=[]
    for i in range(0,a):
        c=int(input("Enter the number :"))
        b.append(c)
    o=0
    e=0
    for i in b:
        if(i%2==0):
            s=i*i
            e=e+s
        else:
            t=i*i
            o=o+t
    print("EVEN=",e)
    print("ODD=",o)
else:
    print("The entered number is invalid")
```

```
def hap(n):  
    past=set()  
    while n!=1:  
        n=sum(int(i)**2 for i in str (n))  
        if n in past:  
            return False  
        past.add()  
    return True  
a=int(input("Enter a number"))  
print(hap(a))
```

```
try:
    a=int(input("Enter a number :"))
    if(a==0):
        print("Output: False")
        print("Explanation: Its a single value")
    else:
        temp=a
        rev=0
        while(a>0):
            d=a%10
            rev=rev*10+d
            a=a//10
        if(temp==rev):
            print("Output : True")
            print("Its a palindrome")
        else:
            print("Output : False")
            print(" It is not a palindrome")
except ValueError:
    print("Enter a positive integer")
```



```
a=int(input("Enter the number of fresh loaves\n"))
b=int(input("Enter the number of old loaves purchased\n"))
if(a<=0):
    print("Enter a positive integer greater than zero")
else:
    f=a*185
    o=(b*185)*60/100
    print("Regular price: Rs.185.00")
    print("Amount of new loaves:", float(f))
    print("Amount of old loaves:", float(o))
    print("Total Amount:", f+o)
```

```
def maxArea(A, Len) :  
    area = 0  
    for i in range(Len) :  
        for j in range(i + 1, Len) :  
            area = max(area, min(A[i], A[j]) * (j - i))  
    return area  
  
a=int(input("Enter the numbers of elements:"))  
if(a>0):  
    b=[]  
    for i in range(0,a):  
        c=int(input("Enter the number :"))  
        b.append(c)  
  
print("INPUT array =",b)  
print("OUTPUT=",maxArea(b,a))
```

```
def add(a,s):  
    if(a==0):  
        return 1  
    else:  
        c=0  
        for i in range(s,5):  
            c+=add(a-1,i)  
        return c  
n=int(input("Enter a number:"))  
if(n<=0):  
    print("Enter a positive integer")  
else:  
    print(add(n,0))
```

```
E=[]
L=[]
t = int(input("T="))
try:
    if(t>0):
        for i in range(t):
            e=int(input("Guest entered="))
            E.append(e)
        for i in range(t):
            l=int(input("Guest Leaved="))
            L.append(l)
        S=0
        M=0
        for i in range(t):
            S+=E[i]-L[i]
            M=max(S,M)
        print("E=",E)
        print("L=",L)
        print("output=",M)
    else:
        print("INVALID T VALUE")
except ValueError:
    print("Enter all values ")
```



```
def isNumber(S) -> bool:
    num, exp, sign, dec = False, False, False, False
    for c in S:
        if c >= '0' and c <= '9':
            num = True
        elif c == 'e' or c == 'E':
            if exp or not num:
                return False
            else:
                exp, num, sign, dec = True, False, False, False
        elif c == '+' or c == '-':
            if sign or num or dec:
                return False
            else:
                sign = True
        elif c == '.':
            if dec or exp:
                return False
            else:
                dec = True
        else:
            return False
    return num
a=input("S=")
print(isNumber(a))
```