In [ ]:

In [1]:
```
#1
s1=int(input("enter the side 1 of triangle"))
s2=int(input("enter the side 2 of triangle"))
s3=int(input("enter the side 3 of triangle"))
if s1==s2==s3:
    print("triangle is equilateral")
elif s1==s2!=s3:
    print("triangle is isoscalen")
elif s1==s3!=s2:
    print("triangle is isoscalen")
elif s3==s2!=s1:
    print("triangle is isoscalen")
else:
    print("triangle is scalen")
```

```
enter the side 1 of triangle5
enter the side 2 of triangle5
enter the side 3 of triangle5
triangle is equilateral
```

In [2]:
```
#2
x=int(input("enter the value of x "))
k=int(input("enter the value of k0 "))
if x>k:
    print("f(x)=ax^3-bx^2+cx-d")
elif x==k:
    print("f(x)=0")
else:
    print("f(x)=-ax^3+bx^2-cx+d")
```

```
enter the value of x 5
enter the value of k0 9
f(x)=-ax^3+bx^2-cx+d
```

In [3]:
```
#3
h=float(input("enter height(m) "))
w=float(input("enter weight(kg) "))
BMI=w/h*h
if BMI<=18.4:
    print("Underweight")
elif BMI>=18.5 and BMI<=24.9:
    print("Normal")
elif BMI>=25 and BMI<=39.9:
    print("Overweight")
elif BMI>=40:
    print("Obese")
else:
    print("invalid info")
```

```
enter height(m) 1.8
enter weight(kg) 61
Obese
```

In [4]:
```
#4
ch=input("a=inch-feet and b=cm-meter ")
if ch=="a":
    x=int(input("Enter the value in inches "))
    y=(x/12)
    print("value in feet ",y)
elif ch=="b":
    z=float(input("Enter the value in cm "))
    w=z/100
    print("Value in meters ",w)
else:
    print("Invalid choice")
```

```
a=inch-feet and b=cm-meter b
Enter the value in cm 180
Value in meters  1.8
```

In [5]:
```
#5
user_input=input("enter string")
print("your string is:", user_input)
```

```
enter stringBhargav Patil
your string is: Bhargav Patil
```

In [6]:
```
#6
str=input("enter your string ")
print("odd charecter", str[1::2])
```

```
enter your string Bhargav Patil
odd charecter hra ai
```

In [7]:
```
#7
str=input("enter your string ")
rev_str=reversed(str)
if list(str)==list(rev_str):
    print("the given string is palindrome")
else:
    print("the given string is not a palindrome")
```

```
enter your string lol
the given string is palindrome
```

In [ ]: