In [2]:
```
# Q1. There are two variables.
# a=5
# b=10
# What will be the output of following:

# a > 5 and b >= 10
# a >= 5 or not b > 10
# not ( a > 5 and b > 5)
# not ( a < 10 or not b < 10)
# not ( not a <= 5 or not b >= 10)


a=5
b=10
print(a > 5 and b >= 10)
print(a>=5 or not b>10)
print(not ( a > 5 and b > 5))
print(not ( a < 10 or not b < 10))
print(not ( not a <= 5 or not b >= 10))
```

```
False
True
True
False
True
```

In [16]:
```
# Q2. Python program to convert kilometers to miles. Ask kilometer from User.

a=eval(input('Enter your distance in kilometer: '))
print(a*.61,'mile')
```

```
Enter your distance in kilometer: 56
34.16 mile
```

In [7]:
```
# Q3. Ask 3 numbers from User and Calculate the Average.
a=eval(input('Enter a no.: '))
b=eval(input('Enter a no.'))
c=eval(input('Enter a no.'))
avg=(a+b+c)/3
print(avg)
```

```
Enter a no.: 1
Enter a no.2
Enter a no.3
2.0
```

In [8]:
```
#Q4.Ask value in Rupees and Convert into Paise.

a=eval(input('Enter your money in rupees: '))
b=a*100
print(b,'paise')
```

```
Enter your money in rupees: 400
40000 paise
```

In [11]:
```
# Q5. Calculate Area of Square by taking side from User.

a=eval(input('Enter side of a square : '))
b=a**2
print(b)
```

```
Enter side of a square : 4
16
```

In [12]:
```
# Q6. Ask number of games played in a tournament. Ask the user number of games won
# Calculate number of tie and total Points. (1 win= 4 points, 1 tie =2 points)

a=eval(input('Enter no. of games played: '))
b=eval(input('Enter no. of games won: '))
c=eval(input('Enter no. of games loss: '))
tie_match=(a-(b+c))
total_point=(4*b+2*tie_match)
print(tie_match )
print(total_point)
```

```
Enter no. of games played: 4
Enter no. of games won: 3
Enter no. of games loss: 0
1
14
```

In [13]:
```
# Q7. Check if the number entered by User is divisible by 3 or not.

a=eval(input('Enter a no.: '))
if a%3==0:
    print('a is divisible by 3')
else:
    print('a is not divisible by 3')
```

```
Enter a no.: 6
a is divisible by 3
```

In [14]:
```
# Q8. Ask a number from user. Print if the number is ODD or EVEN.

a=eval(input('Enter a no.: '))
if a%2==0:
    print('a is even no.')
else:
    print('a is odd no.')
```

```
Enter a no.: 5
a is odd no.
```

In [15]:
```
# Q9. Take values of length and breadth of a rectangle from user and check if it is

a=eval(input('Enter length of fig: '))
b=eval(input('Enter breadth of fig: '))
if a==b:
    print('it is a square')
else:
    print('it is a rectangle')
```

```
Enter length of fig: 4
Enter breadth of fig: 5
it is a rectangle
```

In [ ]: