

```
In [1]: print(2+3)
print(5-3)
print(2*3)
print(10/3)
#"+", "-", "*", and "/" are basic arithmetic operators.
```

```
5
2
6
3.3333333333333335
```

```
In [8]: print(2**3)
#""**" represents power.
```

```
8
```

```
In [9]: print(10//3)
#""//" will give us quotient.
```

```
3
```

```
In [10]: print(10%3)
#""%" represents mod.
```

```
1
```

```
In [13]: print(2==3)
#""==" represents equals to.
```

```
False
```

```
In [14]: print(3!=4)
#""!=" represents not equals to.
```

```
True
```

```
In [18]: print(5>10)
print(2>2)
#">" represents greater than.
```

False  
False

```
In [20]: print(2>=2)
#">=" represents greater than or equal to.
```

True

```
In [21]: print(5<10)
print(2<2)
#"<" represents less than.
```

True  
False

```
In [23]: print(2<=2)
#"<=" represents less than or equal to.
```

True

```
In [31]: print(2==3 and 5>3)
print(3==3 and 5>3)
print(2==3 and 5<3)
```

False  
True  
False

```
In [34]: print(5==3 or 2>1)
print(5==3 or 2<1)
print(5==5 or 2>1)
```

```
True
False
True
```

```
In [35]: print(not(3>2))
```

```
False
```

```
In [54]: marks=int(input("Enter your marks: "))
print(marks>=33)
if marks>33:
    print("You have passed the test.")
    print("Congratulations! :)")
else:
    print("You have failed the test.")
    print("Try hard next time. :(")

print("What are you waiting for? Go home!")

#if else: conditional formatting
```

```
Enter your marks: 100
True
You have passed the test.
Congratulations! :)
What are you waiting for? Go home!
```

```
In [58]: marks=int(input("Enter your marks: "))
print(marks>=33)
if marks>33:
    print("You have passed the test.")
    print("Congratulations! :)")
else:
    print("You have failed the test.")
    print("Try hard next time. :(")

print("What are you waiting for? Go home!")

#if else: conditional formatting
```

```
Enter your marks: 32
False
You have failed the test.
Try hard next time. :(
What are you waiting for? Go home!
```

```
In [73]: marks=int(input("Enter your marks: "))
print(marks>=33)
if marks<33:
    print("You have not passed the test.")
elif marks>=33 and marks<=60:
    print("You have passed the test but didn't do well.")
    print("Congratulations! :)")
elif marks>60 and marks<80:
    print("You have passed the test, excellent.")
    print("Congratulations! :)")

print("What are you waiting for? Go home!")

#if else: conditional formatting
```

```
Enter your marks: 100
True
What are you waiting for? Go home!
```

```
In [68]: num=int(input("Enter a number: "))
         if (num%2==0):
             print("Even")
         else:
             print("Odd")
```

Enter a number: 10  
Even

```
In [78]: num=int(input("Enter a number: "))
         if (not(num%2==0 or num%5==0)):
             print("Multiple of 5")
         else:
             print("Not a multiple of 5")
```

Enter a number: 4  
Not a multiple of 5

```
In [83]: a=int(input("a="))
         b=int(input("b="))
         c=int(input("c="))
         if (a>=b and a>=c):
             print("a is largest")
         elif (b>=a and b>=c):
             print("b is largest")
         else:
             print("c is largest")
```

a=2  
b=10  
c=7  
b is largest

```
In [93]: a=int(input("a="))
b=int(input("b="))
c=int(input("c="))
largest=a
if b>=largest:
    largest=b
    print("inside b condition")
elif c>=largest:
    largest=c
    print("inside c condition")
print()
print(largest)
```

```
a=2
b=14
c=7
inside b condition
```

```
14
```