# 1 program:(mathmatical operations)

x=int(input("enter a number: "))

y=int(input("enter another number: "))

print(x,"+",y,"=",x+y)

print(x,"-",y,"=",x-y)

print(x,"\*",y,"=",x\*y)

print(x,"/",y,"=",x/y)

print(x,"%",y,"=",x%y)

print(x,"//",y,"=",x//y)

print(x,"\*\*",y,"=",x\*\*y)

## output

enter a number: 2

enter another number: 5

2 + 5 = 7

2 - 5 = -3

2 \* 5 = 10

2 / 5 = 0.4

2 % 5 = 2

2 // 5 = 0

2 \*\* 5 = 32

## program 2:(using if condition)

a=int(input("enter value of a: "))

b=int(input("enter value of b: "))

#checking the condition

if(a>b):

print("a is greater than b")

if(a<b):

print("b is greater than a")

## output 2

cl102@soetcse:~/pavankumar$ python3 ifconditions.py

enter value of a: 25

enter value of b: 35

b is greater than a

cl102@soetcse:~/pavankumar$ python3 ifconditions.py

enter value of a: 35

enter value of b: 25

a is greater than b

# program 3:(using input function)

a=int(input("enter value of a: "))

b=int(input("enter value of b: "))

#checking the condition

if(a\*b>=80):

print("outstanding")

else:

print("can do better")

# outout 3

cl102@soetcse:~/pavankumar$ python3 elseconditions.py

enter value of a: 7

enter value of b: 16

outstanding

cl102@soetcse:~/pavankumar$ python3 elseconditions.py

enter value of a: 3

enter value of b: 4

can do better

# program 4:(finding grade)

a=int(input("enter value of a: "))

b=int(input("enter value of b: "))

#checking the condition

if(a+b>=90):

print("outstanding")

elif(a+b>=60):

print("satisfaction")

elif(a+b<=40):

print("fail")

# output 4

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 35

enter value of b: 45

satisfaction

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 40

enter value of b: 35

satisfaction

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 60

enter value of b: 25

satisfaction

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 58

enter value of b: 49

outstanding

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 30

enter value of b: 21

cl102@soetcse:~/pavankumar$ python3 elifconditions.py

enter value of a: 15

enter value of b: 20

fail