

In [29]: `import math`

```
print(math.floor(-1.2))
math.ceil(-1.2)
round(11.88845,2)
```

-2

Out[29]: 11.89

In [24]: *#wap to find the largest among three nos.*

```
n1=int(input("enter the first no"))
n2=int(input("enter the second no"))
n3=int(input("enter the third no"))
if((n1>n2) and (n1>n3)):
    print("first no is largest")
elif((n1>n2)and (n2==n3)):
    print("first no is greater")
elif((n1<n2)and(n2==n3)):
    print("second no and third no is greater")
elif((n2>n1) and (n2>n3)):
    print("second no is largest")
elif((n2>n1) and (n1==n3)):
    print("second no is greater")
elif((n2<n1)and(n1==n3)):
    print("first no and third no is greater")
elif((n3>n1) and (n3>n2)):
    print("third no is largest")
elif((n3>n1)and (n1==n2)):
    print("third no is greater")
elif((n3<n1)and(n1==n2)):
    print("first no and second no is greater")
elif ((n1==n2)and (n2==n3)):
    print("all are equal")
```

enter the first no67

enter the second no89

enter the third no89

second no and third no is greater

In [8]: *# membership operator (in) with if*

```
s=input("enter the value")
a=["hi","hello",1]
if s in a:
    print("{} is in list".format(s))
else:
    print("{} is not in list".format(s))
```

enter the value2

2 is not in list

In [45]: *# WAP to give ratings to tv channel based on its views*

```
v=int(input("enter the views for a particular channel : "))
if (v>=10000):
    print("rating is 5")
elif(v>=5000 and v<10000):
    print("rating is 4")
elif(v>=3000 and v<5000):
    print("rating is 3")
elif(v>=1000 and v<3000):
    print("rating is 2")
elif(v<1000):
    print("rating is 1")
```

enter the views for a particular channel : 45

rating is 1

Nested if:else

```
In [60]: w=input("enter weather sunny,cold,rainy, stormy : ")
temp=float(input("enter temp: "))
humidity=input("enter humidity high or low: ")
if w=="sunny":
    if temp>45:
        if humidity=="high":
            print("not play")
        else:
            print("play")
    elif(temp>35 and temp<=45):
        if humidity=="low":
            print(" play")
        else:
            print("not play")
elif w=="cold":
    if temp<7 or humidity == "low" or humidity == "high":
        print("not play")
    else:
        print("play")
elif w=="rainy":
    print("not play")
elif w=="stormy":
    print("not play")
else:
    print("weather value is not valid")
```

```
enter weather sunny,cold,rainy, stormy : stormy
enter temp: 56
enter humidity high or low: low
not play
```

```
In [68]: '''WAP to take a number from user and check if number is divisble by 7 or not, also chec
if it is divisble by 5 or not , and if the no is divisible by both 5 and 7 print as magi

num=int(input("enter the number \n "))
if(num%7==0):
    print("number is divisible by 7")
    if (num%5== 0 ):
        print("magic number ")
    else:
        print("but not divisible by 5")
elif(num%7 != 0):
    print("number is not divisible by 7")
    if (num%5 == 0):
        print("but divisible by 5")
    else:
        print("also not divisible by 5")
```

```
enter the number55
number is not divisible by 7
but divisible by 5
```

```
In [11]: ''' WAP : Big sales :
product categories = electronics , apparels,baby products , personal care
electronics = phone 10% discount , laptops 5% , ac and refrig 20% - price
apparels = gender wise females proffessional 30% , personal 20%
baby = 40%
personal care , if the actual price above 600 then 50% off'''
```

```

cat=input("enter the category of the product")
if(cat=="electronics"):
    print(" 1: phone price is 30000 and discount is 10%")
    print("2: laptop price is 45000 and discount is 5%")
    print("3: AC price is 35000 and discount is 20%")
    print("4: Refrigerator price is 40000 and discount is 20% \n \n")
    product=input("enter the product you want to buy: type coressponding number \n \n ")
    if(product=="1"):
        discount=(10/100*30000)
        print("actual cost is : \n ", 30000)
        print("deducted amount is \n ",discount)
        d_p= 30000-discount
        print("actual price you have to pay for phone is ",d_p)
    elif(product=="2"):
        discount=(5/100*45000)
        print("actual cost is : \n ", 45000)
        print("deducted amount is \n ",discount)
        d_p= 45000-discount
        print("actual price you have to pay for laptop is ",d_p)
    elif(product=="3"):
        discount=(20/100*35000)
        print("actual cost is : \n ", 35000)
        print("deducted amount is \n ",discount)
        d_p= 35000-discount
        print("actual price you have to pay for AC is ",d_p)
    elif(product=="4"):
        discount=(20/100*40000)
        print("actual cost is : \n ", 40000)
        print("deducted amount is \n ",discount)
        d_p= 40000-discount
        print("actual price you have to pay for phone is ",d_p)
    else:
        print("kindly enter valid choice for electronics items")
elif (cat=="apparels"):
    female_prof=input("if you are female and working : enter yes or not ")
    if (female_prof=="yes"):
        print("you get 30% off on all apparels items")
    else:
        print("you get 20% on all the items")
elif(cat=="baby"):
    print("you get 40% discount on all the baby care items")
elif(cat=="personal_care"):
    product_price=float(input("enter the amount of the baby item product "))
    if(product_price>=600):
        print("you get 50% off on all the items")
    else:
        print("you can not avail any discount if your product price is less than 600")
else:
    print("not a valid category")

```

```

enter the category of the productelectronics
 1: phone price is 30000 and discount is 10%
2: laptop price is 45000 and discount is 5%
3: AC price is 35000 and discount is 20%
4: Refrigerator price is 40000 and discount is 20%

```

```

enter the product you want to buy: type coressponding number

```

```

4
actual cost is :
40000

```

```
deducted amount is
8000.0
actual price you have to pay for phone is 32000.0
```

```
In [17]: '''Consider you have your own restaurant : three item choices is there :
1: pizza
2: burger
3: hotdog
toppings available for pizza: paneer, mushrooms, and capsicum
fillings available for burger and hot dog is single layer cheese and double layer cheese
and side order menu is softdrinks
WAP TO CALCULATE THE COST OF ITEM which user ordered BASED ON THE MENU OF RESTAURANT'''

print("welcome to the chilly chikky Restaurant \n ")
print(" Menu \n ")
print("1: PIZZA and the price is 200 \n")
print("2: HOT DOG and the price is 60\n")
print("3: BURGER and the price is 45\n")
price=0
choice= int(input("Kindly enter your choice "))
if (choice==1):
    print("some toppings you may add as: capsicum mushrooms paneer")
    toppings=input("kindly enter which toppings you would like to add \n")
    if(toppings=="paneer"):
        price=200+70
        print("paneer pizza price would be ", price)
    if(toppings=="capsicum"):
        price=200+45
        print("capsicum pizza price would be ",price)
    if(toppings=="mushrooms"):
        price=200+60
        print("mushroom pizza price would be ", price)
elif(choice==2):
    print("some fillings you may add as: single cheese paneer double layer ch")
    fillings=input("kindly enter which fillings you would like to add \n")
    if(fillings== "single_cheese_paneer" ):
        price=60+35
        print("cheesy hot dog price would be ", price)
    elif(fillings=="double_layer_cheese"):
        price=60+50
        print("cheesy hot dog price would be ", price)
elif(choice==3):
    print("some fillings you may add as: single cheese paneer double layer ch")
    fillings=input("kindly enter which fillings you would like to add \n")
    if(fillings== "single_cheese_paneer" ):
        price=45+35
        print("cheesy burger price would be ", price)
    elif(fillings=="double_layer_cheese"):
        price=45+50
        print("cheesy burger price would be ", price)
else:
    print("enter valid choice")
soft=input("you wish to add softdrinks yes or not ")
final_p=price+85
print("cost will be ", final_p)
```

welcome to the chilly chikky Restaurant

Menu

1: PIZZA and the price is 200

2: HOT DOG and the price is 60

3: BURGER and the price is 45

Kindly enter your choice 2

some fillings you may add as: single cheeze paneer double layer cheeze

kindly enter which fillings you would like to add

double_layer_cheeze

cheezyy hot dog price would be 110

you wish to add softdrinks yes or not yes

cost will be 195

```
In [31]: '''CONSIDER A COMPANY : SINCE 2016 (5 YEARS OLD)
Need to give bonus to the employee at the end of the year
ELIGIBILTY :
if person has overall greater than or equal to 10 years of work epereince then 5k
if person has overall greater than or equal to 10 years of work epereince then 5k:
if a person is having 3 years in current company but overall experince is 8 then 3k
if overall experince is 3 years in current company then 3k'''
print("share your work experince in this ABC company since 2016")
p_work_experince=float(input("enter your previous work_experince \n "))
c_work_experince=float(input("enter your current work_experince in this company \n"))
total_w_exper= p_work_experince+c_work_experince
if(total_w_exper>=10)or (c_work_experince==5):
    print("5k bouns would be given to you \n")
    '''elif(total_w_exper>=10):
    if(c_work_experince==5):
        print("")
    else:
        print("5k bouns would be given to you \n")'''
elif(c_work_experince==3 and total_w_exper==8 ):
    print("3k bouns would be given to you \n")
elif(c_work_experince==3):
    print("3k bouns would be given to you \n")
else:
    print("not eligible for bonus")
```

enter your work experince in this ABC company since 2016

enter your previous work_experince

6

enter your current work_experince in this company

5

5k bouns would be given to you

```
In [40]: '''WAP to convert temperature to and from celcius , farenhiet
if tem in celcius >48 then lets get icecream and enjoy the movie at home
if temp in celcius <40 then enjoy your trip'''

tem=float(input("enter the temp "))
cat_tem=input("enter the category of temp : celcius: C OR farenhiet : F")
if(cat_tem=="C"):
    f=(tem*9/5)+32
    print("the value of tem in fehrenhiet is ", f)
    if(tem>=48):
        print("lets get icecream and enjoy movie at home")
    elif(tem<=40):
        print("enjoy your trip")
elif(cat_tem=="F"):
    c=(tem-32)*5/9
    print("the value of tem in celcius is ", c)
else:
    print("wrong category")
```

```
enter the temp 38
enter the category of temp :   celcius:C OR farenhiet : FC
the value of tem in fehrenhiet is  100.4
enjoy your trip
```

```
In [44]: '''WAP to check wether the entered number is odd or even if it is odd
then also check it is divisble by 7 if it is divisble by 7 then compute its cube'''
```

```
num=int(input("enter the number"))
if(num%2==0):
    print("{} number is even".format(num))
else:
    print("{} number is odd".format(num))
    if(num%7==0):
        print("{} number is divisble by 7".format(num))
        c_num=num*num*num
        print("the cube of {} is : {}".format(num,c_num))
    else:
        print("not divisble by 7")
```

```
enter the number35
35 number is odd
35 number is divisble by 7
the cube of 35 is : 42875
```

```
In [ ]:
```

```
In [ ]:
```