

## Conditional statements

- We want to execute python statements based on conditions
- For example:
  - I want to play cricket, If there is No rain
  - I want to eat icecream, If there is a Rain
- if
- if - else
- if-elif-else

### Case-1

*if*

```
In [ ]: # syntax

if <write some condition>:
    <code line1>
    <code line2>

# whenever if we start any line with keyword
# at the end of the line we have :
# whenever we have colon
# the next lines will start by maintaining some gap
# that gap is called as indentation
# keyword --- colon --- indentation
```

```
In [1]: 100>10
```

```
Out[1]: True
```

```
In [ ]: if 100>10:
        print('the answer is correct')

# step-1: Condition 100>10: True    if    True
# step-2: It is entering inside
#           inside print statement is there : 'the answer is correct'
```

```
In [2]: if 100<10:
        print('the answer is correct')
# Step-1: Condition 100<10 : False    if    False
# Step-2: The condition is false , the compiler will not enter inside the if block
# No error - No answer
```

*mistake – 1*

- indentation error

- after : we are not providing any space

```
In [3]: if 100>10:
        print('hello')
```

```
Cell In[3], line 2
    print('hello')
    ^
```

**IndentationError:** expected an indented block after 'if' statement on line 1

- what is the input number cell number : Cell In[3]
- what is the line : line 2
- where is the error : starting upcap

```
In [10]: if 100>10:
        print('hello')
```

hello

```
In [ ]: sir why it is only printing hello?
        whats the use of if 100>10?

        sultana: you want to play cricket
                  condition: if<sultana can play cricket>

        i want to print hello when 100>10 only
        if 100>10:
            print('hello')

        i want to a addition program when 100>10
        a=10
        b=20
        c=a+b
        print(c)
```

```
In [11]: a=10
        b=20
        c=a+b
        print(f"The addition of {a} and {b} is:{c}")
```

The addition of 10 and 20 is:30

```
In [13]: if 100>10:
        a=10
        b=20
        c=a+b
        print(f"The addition of {a} and {b} is:{c}")
```

The addition of 10 and 20 is:30

```
In [14]: # Area of traingle
        # 0.5*breadth*height

        breadth=eval(input('enter breadth:'))
        height=eval(input("enter height"))
```

```
area=0.5*breath*height
print(f"The area of traingle is :{area}")
```

The area of traingle is :300.0

```
In [15]: if 2>10:
          a=10
          b=20
          c=a+b
          print(f"the addition value is {c}")
```

```
In [16]: print('sandeep')
          print('prajwal')
          if 100<10:
              print('sultana')

          # Think like computer
          # step-1: sandeep
          # step-2: prajwal
          # step-3: 100<10: False code will stop
```

sandeep  
prajwal

```
In [ ]: print('sandeep')
          print('prajwal')
          if 100>10:
              print('sultana')
              print('raj')
          # step-1: sandeep
          # step-2: prajwal
          # step-3: 100>10 True =====> inside the block
          # step-4: sultana
          # step-5: raj
```

```
In [17]: print('sandeep')
          print('prajwal')
          print('hello')
          #####
          if 100>10:
              print('sultana')
              print('raj')
          #####
          print('bye')
          print('katam zindagi')
```

sandeep  
prajwal  
hello  
sultana  
raj  
bye  
katam zindagi

```
In [18]: print('sandeep')
          print('prajwal')
          print('hello')
          #####
          if 100<10:
              print('sultana')
              print('raj')
```

```
#####
print('bye')
print('katam zindagi')
```

```
sandeep
prajwal
hello
bye
katam zindagi
```

```
In [21]: print('sandeep')
print('prajwal')
print('hello')
#####
if 100>10:
    print('sultana')
    print('raj')
#####
print('bye')
print('katam zindagi')
```

```
sandeep
prajwal
hello
sultana
raj
bye
katam zindagi
```

```
In [24]: if 100<10:
    breadth=eval(input('enter breadth:'))
    height=eval(input("enter height"))
    area1=0.5*breadth*height

    print(f"The area of traingle is :{area1}")
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[24], line 6
      3     height=eval(input("enter height"))
      4     area1=0.5*breadth*height
----> 6 print(f"The area of traingle is :{area1}")

NameError: name 'area1' is not defined
```

*mistake – 2*

```
In [30]: if 100<10
```

```
Cell In[30], line 1
    if 100<10
      ^
SyntaxError: expected ':'
```

*mistake – 3*

```
In [31]: if:
    print('hello')
```

Cell In[31], line 1

```
if:
  ^
```

SyntaxError: invalid syntax

```
In [26]: print('sandeep1')
print('rashid')
print('naresh')
if 1>10:
    print('sandeep2')
print('raj')
print('aparna')
#sandeep1
# rashid
# naresh
# if
```

sandeep1  
rashid  
naresh  
raj  
aparna

### if-else

```
In [ ]: # syntax

#if <write your condition here>:
#     <line1>
#else:
#     <lines>
```

```
In [32]: if 100>10:
print("your condition is correct")
print('You are in')
else:
print("your condition is wrong")
print("you are out")

# step-1: if 100>10 if True
# step-2: your condition is correct
# step-3: You are in
```

your condition is correct  
You are in

```
In [33]: if 100<10:
print("your condition is correct")
print('You are in')
else:
print("your condition is wrong")
print("you are out")

# step-1: if 100<10 False == not enter inside
# step-2: else block
# step-3: your condition is wrong
# step-4: you are out
```

your condition is wrong  
you are out

```
In [34]: print("Hello")
         if 100<10:
             print("your condition is correct")
             print('You are in')
         else:
             print("your condition is wrong")
             print("you are out")
         print("bye")
```

Hello  
your condition is wrong  
you are out  
bye

```
In [35]: print("Hello")
         print(1)
         if 100>10:
             print("your condition is correct")
             print('You are in')
         else:
             print("your condition is wrong")
             print("you are out")
         print("bye")
         print(2)
```

Hello  
1  
your condition is correct  
You are in  
bye  
2

```
In [38]: print("Hello")
         if 100<10:
             print("your condition is correct")
             print('You are in')
         print("why you are in middle")
         else:
             print("your condition is wrong")
             print("you are out")
         print("bye")
```

Cell In[38], line 6  
else:  
^  
SyntaxError: invalid syntax

```
In [5]: if 100<10:
         print('Okay')

         print("Thank you!")
```

Thank you!

```
In [3]: if 100<10:
         print('okay')
         else:
             print('not okay')
```

not okay

```
In [4]: if 100>10:
        print('okay')
        print("why you are here?")
    else:
        print('not okay')
```

```
Cell In[4], line 4
    else:
    ^
SyntaxError: invalid syntax
```

```
In [6]: if 100>10
```

```
Cell In[6], line 1
    if 100>10
    ^
SyntaxError: expected ':'
```

```
In [ ]: #WAP ask the user enter two numbers
        # print the greatest number

        # Idea
        # step-1: Take the number1 = eval
        # step-2: Take the number2= eval
        # step-3: if <cond>:
        # step-4     print()
        # step-5: else:
        # step-6:     print()
```

```
In [7]: n1=eval(input("enter the number1:"))
        n2=eval(input("enter the number2:"))
        if n1>n2:
            print(f"the greatest number is: {n1}")
        else:
            print(f"the greatest number is: {n2}")
```

the greatest number is: 50

```
In [ ]: # WAP ask the user enter the distance
        # if the distance > 25, then ask the user enter the charge
        # and print the total charge
        # otherwise (distance<25) print free ride
        # Idea:
        # Step-1: distance=eval()
        # Step-2: if <cond>:
        # step-3:     charge=eval()
        # step-4:     total charge= dist*charge
        # step-5: else:
        # step-6:     print free ride
```

```
In [11]: distance=eval(input("enter the distance:"))
        if distance>=25:
            charge=eval(input("enter the charge:"))
            total_charge=distance*charge
            print("Total charge is:",total_charge)
        else:
            print("Enjoy the free ride")
```

Enjoy the free ride

```
In [18]: distance=eval(input("enter the distance:"))
if distance<25:
    print("Free ride")

else:
    charge=eval(input("enter the charge:"))
    total_charge=distance*charge
    print("Total charge is:",total_charge)
```

Total charge is: 500

```
In [ ]: #Q3)till 25 free ride
#after 25 km
#you need to take those upper value
#100km
#100-25=75km

#Idea
# Step-1: calculate the distance you want to travel
#         travel_distance= eval()
# Step-2: free_distance=25km
# Step-3: if travel_distance>free_distance:
#         amount_distance= travel_distance-free_distance
#         charge=
#         total charge
# step-4: else:
#         free ride
```

```
In [19]: travel_distance=eval(input("enter the distance you want travel:"))
free_distance=eval(input("Enter the distance which govt is giving free:"))
if travel_distance>free_distance:
    amount_distance=travel_distance-free_distance
    charge=eval(input("enter the charge:"))
    total_charge=amount_distance*charge
    print("Total charge is:",total_charge)

else:
    print("Enjoy free ride")
```

Total charge is: 750

```
In [ ]: # Daughter: hey Mom
# Mom: Hi beta
# D: Mom do you know govt has given free ride for us
# Mom: Achaa great
# D: then we will go to grandmother house
# Cond: show me your id card
# Mom: No we dont have ide card, my dau has
# Cond: For you we will take money, for your datuget is free ride
# Mom: how much charge
# Cond: how much distance youwant travel
# distance= eval(input("Mom says:"))
# if distance>25:
#     charge= eval(input('conductor says cahрге'))
#     toatl charge
# else:
#     print(Free ride)
```

```
In [22]: import time
print("Daughter: Hey mom")
```



```

time.sleep(2)
print('Mom: Hi beta')
time.sleep(2)
print('Daughter: Mom do you know govt has given free ride for us')
time.sleep(2)
print('Mom: Acha great')
time.sleep(2)
print('Daughter: Then we will go to Grandmother house')
time.sleep(2)
print('Cond: Show me your id card')
time.sleep(2)
print('Mom: No we dont have id card, my daughter has')
time.sleep(2)
print('Cond: For you we will take money, for your daughter is free ride')
time.sleep(2)
print('Mom: How much charge')
time.sleep(2)
print('Cond: How much distance you want to travel')
time.sleep(2)
distance=eval(input('Mom: Distance I want to Travel: '))
if distance>25:
    charge=eval(input('Cond: Charge is: '))
    total_charge=distance*charge
    print(f'Cond: Total charge you have to pay is: {total_charge}')
else:
    print('You are eligible for free ride')

```

Daughter: Hey mom  
 Mom: Hi beta  
 Daughter: Mom do you know govt has given free ride for us  
 Mom: Acha great  
 Daughter: Then we will go to Grandmother house  
 Cond: Show me your id card  
 Mom: No we dont have id card, my daughter has  
 Cond: For you we will take money, for your daughter is free ride  
 Mom: How much charge  
 Cond: How much distance you want to travel  
 Cond: Total charge you have to pay is: 200

```

In [ ]: # eval is using
        # why not float

        # is eval takes the user input: No
        #         input will take the user value from the keyboard

        # you are giving the direct numerical values to the eval
        #         eval is math family
        #         direct numbers means already same family
        #         No need to provide direct values

        # You are giving english inside the eval
        #         eval is math family
        #         english letters english family
        #         should not provide

```

```
In [1]: float('1.5'),float('1')
```

```
Out[1]: (1.5, 1.0)
```

```
In [2]: int('1')
```

```
Out[2]: 1
```

```
In [3]: eval('1.5'),eval('1')
```

```
Out[3]: (1.5, 1)
```

```
In [4]: float('1.5'),float('1')
```

```
Out[4]: (1.5, 1.0)
```

```
In [ ]: float('1.5'),int('1')
        eval('1.5'),eval('1')
```

```
In [5]: input()
```

```
Out[5]: '1.5'
```

```
In [ ]: eval('1.5')
        eval(input())
```

```
In [7]: eval('2')
```

```
Out[7]: 2
```

```
In [8]: eval('python')
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[8], line 1
----> 1 eval('python')

File <string>:1

NameError: name 'python' is not defined
```

```
In [ ]: #WAP ask the user enter two numbers
        # print the greatest number
```

```
# Idea
# step-1: Take the number1 = eval
# step-2: Take the number2= eval
# step-3: if <cond>:
# step-4     print()
# step-5: else:
# step-6:     print()
```

```
In [ ]: distance=eval(input("enter the distance:"))
        if distance>=25:
            charge=eval(input("enter the charge:"))
            total_charge=distance*charge
            print("Total charge is:",total_charge)
        else:
            print("Enjoy the free ride")
```

```
In [ ]: #Q3)till 25 free ride
#after 25 km
#you need to take those upper value
#100km
#100-25=75km

#Idea
# Step-1: calculate the distance you want to travel
#         travel_distance= eval()
# Step-2: free_distance=25km
# Step-3: if travel_distance>free_distance:
#         amount_distance= travel_distance-free_distance
#         charge=
#         total charge
# step-4: else:
#         free ride
```

```
In [ ]: # 5)wap ask the user
# enter course name
# enter institute name
# if course name equal to data sceience
# and institute name equal to naresh it
# then print good
# other wise print bad
# Idea
# Step-1: course_name=input()
# Step-2: inst_name= input()
# Step-3: if course_name==' and inst_name=='
# Step-4:     print()
# Step-5: else
# Step-6:     print()
```

```
In [10]: c_name=input()
i_name=input()
# var= 'd'
if c_name=='data science' and i_name=='naresh it':
    print('Good')
else:
    print('Bad')
```

Bad

```
In [13]: c_name=input()
i_name=input()
if c_name=='data science' or i_name=='naresh it':
    print('Good')
else:
    print('Bad')
```

Bad

```
In [14]: c_name=input()
i_name=input()
pref_course_name='data science'
pref_inst_name='naresh it'
if c_name==pref_course_name and i_name==pref_inst_name:
    print('Good')
else:
    print('Bad')
```

Good

```
In [ ]: name='python'
        name=='python'
```

```
In [ ]: var='data science'
        var1='naresh it'
        course_name=input('Enter Course Name: ')
        institute_name=input('Enter Institute Name: ')

        if course_name==var and institute_name==var1:
            print('Good')
        else:
            print('Bad')
```

```
In [15]: print('hello')
         if 100>10:
             print('bye')
```

hello  
bye

```
In [16]: 100>10
```

Out[16]: True

```
In [17]: print('hello')
         if True:
             print('bye')
```

hello  
bye

```
In [18]: print('hello')
         if False:
             print('bye')
```

hello

```
In [19]: print('hello')
         if True:
             print('bye')
             print(5/2)
             print(0/0)
             print('hai')
             print('good')
```

hello  
bye  
2.5

```
-----
ZeroDivisionError                                Traceback (most recent call last)
Cell In[19], line 5
      3 print('bye')
      4 print(5/2)
----> 5 print(2/0)
      6 print('hai')
      7 print('good')

ZeroDivisionError: division by zero
```

```
In [ ]: 5/2 # 2.5 Normal division
        5//2 # 2 floor division
        5%2 # 1 modulus
```

Modulus takes the remainder  
 Normal division gives normal division value  
 Floor division takes the round of the quotient

```
In [ ]: # Q6)
        # Ask the user take the number from keyboard
        # print the number is even or odd

        # Idea: any number divide with 2 , the remainder is zero
        #         then it is an even
        # Step-1: num=eval(input())
        # Step-2: if <con>:
        # Step-3:     print()
        # Step-4: else:
        # Step-5:     print()
```

```
In [21]: num=eval(input("Enter the number:"))
        if(num%2==0):
            print(f'{num} is an even number')
        else:
            print(f'{num} is an odd number')
```

33 is an odd number

```
In [ ]: # Q7)
        # Ask the user get a random number between 1 to 100
        # print the number is even or odd

        # Idea: any number divide with 2 , the remainder is zero
        #         then it is an even
        # import random
        # Step-1: num=<ranom number>
        # Step-2: if <con>:
        # Step-3:     print()
        # Step-4: else:
        # Step-5:     print()
```

```
In [27]: import random
        num=random.randint(1,100)
        if(num%2==0):
            print(f'{num} is an even number')
        else:
            print(f'{num} is an odd number')
```

54 is an even number

### Concentrate how we are providing the numbers

- we can provide hard code: **direct value**
- we can provide from keyboard: **input**
- we can provide randomly : **using random package**

```
In [ ]: num=10
if(num%2==0):
    print(f'{num} is an even number')
else:
    print(f'{num} is an odd number')

num=eval(input("Enter the number:"))
if(num%2==0):
    print(f'{num} is an even number')
else:
    print(f'{num} is an odd number')

import random
num=random.randint(1,100)
if(num%2==0):
    print(f'{num} is an even number')
else:
    print(f'{num} is an odd number')
```

```
In [ ]: #Q8)
# WAP ask the user get a random integer number(n1) between 1 to 10
#      ask the user take another number(n2) from keyboard
# if n1 equal to n2
#      print won
# else
#      print loss

# Step-1: n1=random number
# Step-2: n2=eval(input())
# step-3: if <con>:
# Step-4:     print('won')
# Step-5: else:
# Step-6:     print('loss')
```

```
In [33]: import random
n1=random.randint(1,10)
n2=eval(input("Enter the number:"))
if n1==n2:
    print("you won")
else:
    print("you loss")
```

5  
you won

```
In [ ]: - Till now we have seen if-else

- two outputs based on one condition

- there are three outputs based on two conditions

- if -elif-else

- if con:
    statements
- elif con
    statements
- else:
    statements
```

```
In [ ]: #9) WAP ask the user enter a number
#       if num equal to one then print ('one')
#       if num equal to 2 then print ('two')
#       if num equal to 3 then print ('three')
#       if num equal to 4 then print ('four')
# if-elif-elif-else
```

```
In [2]: num=eval(input("enter the number:"))
if num==1:
    print('one')
elif num==2:
    print('two')
elif num==3:
    print('three')
elif num==4:
    print("Four")
else:
    print("Enter a valid number")
```

Enter a valid number

```
In [3]: num=input("enter the number:")
if num=='1':
    print('one')
elif num=='2':
    print('two')
elif num=='3':
    print('three')
elif num=='4':
    print("Four")
else:
    print("Enter a valid number")
```

Enter a valid number

```
In [6]: num=3
if num==1:
    print('one')

if num==2:
    print('two')

if num==3:
    print('three')
```

three

```
In [ ]: # WAP ask the user enter a percentage
# if the per greater than 90 print Garde A
# if the per greater between 75 to 90 print Garde B
# if the per greater between 60 to 75 print Garde C
# if the per greater between 40 to 60 print Garde D
# if the per greater between less than 40 print fail
```

```
In [10]: percentage=eval(input("Enter the percentage: "))
if percentage>=90:
    print("Grade A")
elif percentage>=75 and percentage<90:
    print("Grade B")
elif percentage>=60 and percentage<75:
    print("Grade c")
elif percentage>=40 and percentage<65:
    print("Grade D")
else:
    print("fail")
```

Grade A

```
In [16]: percentage=eval(input("Enter the percentage betwwn 0 to 100: "))
if percentage>=90:
    print("Grade A")
elif percentage>=75 :
    print("Grade B")
elif percentage>=60 :
    print("Grade c")
elif percentage>=40 :
    print("Grade D")
else:
    print("fail")
# Step-1 : Per =79
# Step-2: if 79>=99    False
# Step-3: elif 79>=75  True
# Step-4: elif 79>=60  True
# Step-5: elif 79>=40  True
```

Grade A

- whenever we use if-elif code will stop first True condition only
- For example in above code per=99
- It satisfy all the conditions but first one only print
- that is the first true value

```
In [18]: percentage=eval(input("Enter the percentage betwwn 0 to 100: "))
if False:
    print("Grade A")

if percentage>=75 :
    print("Grade B")#

if percentage>=60 :
    print("Grade c")
```



```

if percentage>=40 :
    print("Grade D")
else:
    print("fail")

```

Grade B

Grade c

Grade D

```

In [ ]: # WAP ask the user enter a age
        # if the age greater than 100 print unlucky
        # if the age greater between 60 to 100 print SS
        # if the age greater between 30 to 60 print Middle aged
        # if the age greater between 20 to 30 print Young
        # if the age greater between 10 to 20 print teenage
        # otherwise print kid

```

```

In [19]: age=eval(input('Enter the age: '))
        if age>100:
            print("Unlucky person")
        elif age>=60:
            print("Senior Citizen")
        elif age>=30:
            print("Middle age")
        elif age>=20:
            print("Young age")
        elif age>=10:
            print("Teenage")
        else:
            print("Kid")

```

Middle age

```

In [ ]: # WAP ask the user enter the distance
        # If the distance is greater than 50
        #         ask the user charge (enter 10)
        #         print the total charge
        # If the distance is between 25 to 50
        #         ask the user charge = 5
        #         print the total charge
        # If the distance is between 10 to 25
        #         ask the user charge = 2
        #         print the total charge
        # else free ride

```

```

In [23]: distance=eval(input("Enter the distance: "))
        if distance>=50:
            charge=eval(input("Enter charge "))
            print(distance*charge)
        elif distance>=25:
            charge=eval(input("Enter charge "))
            print(distance*charge)
        elif distance>=10:
            charge=eval(input("Enter charge "))
            print(distance*charge)
        else:
            print("Free ride")

```

```
In [ ]: # Ask the user number1
# Ask the user number2
# print statemets
# enter 1 for addition opertation
# enter 2 for sub opertation
# enter 3 for mul opertation
# enter 4 for div opertation
# ask the user operation=eval(input())
# if operation equal to 1 then print a+b
# if operation equal to 2 then print a*b
# if operation equal to 3 then print a-b
# if operation equal to 4 then print a/b
# else print enter valid operation
```

```
In [27]: import time
a=eval(input("Enter first number."))
b=eval(input("Enter second number."))

print("Enter 1 for: addition")
time.sleep(1)
print("Enter 2 for: subtraction")
time.sleep(1)
print("Enter 3 for: multiplication")
time.sleep(1)
print("Enter 4 for: division")

option=eval(input("Enter the operation:"))

if option==1:
    print(f"The addition of {a} and {b} is {a+b}")

elif option==2:
    print(f"The subtraction of {a} and {b} is {a-b}")

elif option==3:
    print(f"The multiplication of {a} and {b} is {a*b}")

elif option==4:
    print(f"The division of {a} and {b} is {a/b}")

else:
    print("Enter a valid operation")
```

```
Enter 1 for: addition
Enter 2 for: subtraction
Enter 3 for: multiplication
Enter 4 for: division
Enter a valid operation
```

```
In [ ]: n1 = eval(input("Enter a number: "))
n2 = eval(input("Enter another number: "))
op = input("Enter 1 for add 2 for sub 3 for mul 4 for div: ")
if op=='1':
    print(n1+n2)
elif op=='2':
    print(n1-n2)
elif op=='3':
    print(n1*n2)
elif op=='4':
```

```

    print(n1/n2)
else:
    print("Enter valid operation!")

```

```

In [29]: a=eval(input("enter the number 1 :"))
b=eval(input("enter the number 2 :"))
exp=input("enter the operator from this [+,-, *, /] to perform operation :")
if exp=="+":
    print("the addition is :",a+b)
elif exp=="-":
    print("the minus is :",a-b)
elif exp=="*":
    print("the multiplication is :",a*b)
elif exp=="/":
    print("the division is :",a/b)
else:
    print("invalid operator")

```

the multiplication is : 4800

```

In [35]: # WAP ask the user enter a number
# if the number greater than equal to zero
#         if number equal to zero
#             print it is a zero
#         else
#             print it is a pos number
# else
#     print it is a negative number

number=eval(input("enter the number:"))
if number>=0:
    if number==0:
        print("It is a zero number")
    else:
        print("It is a pos number")
else:
    print("It is a negative ")

```

It is a zero number

```

In [32]: num1= eval(input("Please enter first number: "))
num2= eval(input("Please enter second number: "))
operation=input("Please enter operation like +,-,*,/ or number like 1,2 3,4:")
if operation=="1" or operation=="+":
    addition=num1+num2
    print(f"Summation of {num1} and {num2} is :{addition}")
elif operation=="2" or operation=="-":
    subtraction=num1-num2
    print(f"subtraction of {num1} and {num2} is :{subtraction}")
elif operation=="3" or operation=="*":
    multiplication=num1*num2
    print(f"multiplication of {num1} and {num2} is :{multiplication}")
elif operation=="4" or operation=="/":
    division=num1/num2
    print(f"division of {num1} and {num2} is :{division}")
else:
    print("Please enter valid operation")

```

multiplication of 100 and 200 is :20000

```
In [ ]: # wap
# ask the user enter gender
# if gender equal to male
#     ask the user enter age
#     if age gretaer than 60 print ss
#     if age greater between 30 to 60 priny MM
#     if age between 10 to 20 print young man
#     otherwise print Boy
# if gender equal to Female
#     ask the user enter age
#     if age gretaer than 60 print ss
#     if age greater between 30 to 60 priny MW
#     if age between 10 to 20 print young Girl
#     otherwise print Girl
# Otherwise print enter a valid gender
```

```
In [38]: gender = input('Please enter your gender, enter m for male and f for female')
if gender == 'm':
    age = eval(input('Please enter your age'))
    if age >=60:
        print('senior citizen')
    elif age >=30:
        print('middle aged')
    elif age >=10:
        print('young man')
    else:
        print('kid')
elif gender == 'f':
    age = eval(input('Please enter your age'))
    if age >=60:
        print('senior citizen')
    elif age >=30:
        print('middle aged')
    elif age >=10:
        print('young women')
    else:
        print('kid')
else:
    print('invalid gender')
```

invalid gender

```
In [ ]: # WAP
# Ask the user enter n1
#             n2
#             n2
# find the greatest value
```