

```
In [ ]: #wap as the user enter a number  
# find if the number is even or odd
```

```
In [ ]: # step 1: read the number  
# step2:if<condition>:  
#   step 3:#####  
# step4:else:  
#   step5:#####
```

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

```
In [7]: #read a random number between 10 nd 50  
import random  
num=random.randint(10,50)  
  
if num%2==0:  
    print(f'Number {num} is even')  
else:  
    print(f"Number {num} is odd")
```

Number 48 is even

In [9]: *#Different methods of feeding the number in the system*

#Method - 1 - direct value

```
num=56
if num%2==0:
    print(f'Number {num} is even')
else:
    print(f"Number {num} is odd")
```

#Method - 2- giving the value from keyboard

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

#Method - 3 - Random value without the involvement of the user

```
import random
num=random.randint(10,50)

if num%2==0:
    print(f'Number {num} is even')
else:
    print(f"Number {num} is odd")
```

Number 56 is even
Enter a number56
Number 56 is even
Number 42 is even

In [13]: *# Wap ask the user enter the number between 1 to 100
print 'greater than 50' if the value is greater than 50 else print 'less than 50'*

```
num=eval(input('Enter the number between 1 to 100: '))
if num>=50:
    print('greater than or equal to 50')
else:
    print('less than 50')
```

Enter the number between 1 to 100: 50
greater than or equal to 50

In [18]: *#improvise the above code by giving the random number*

```
import random
num=random.randint(1,100)

if num>=50:
    print(f'{num} is greater than or equal to 50')
else:
    print(f'{num} is less than 50')
```

70 is greater than or equal to 50

In []: *#wap take one number as a random number between 1 to 10 :num1
#ask the user to enter a number from keyboard :num2
#if num1 equal to num2 print you won
#if num1 not equal to num2(else) print you Lost*

In [25]:

```
num1=random.randint(1,10)
num2=eval(input("Enter the number between 1 to 10: "))
if num1==num2:
    print('YOU WON')
else:
    print('YOU LOST')
```

Enter the number between 1 to 10: 22
YOU LOST

In []: *#wap
#conductor:show me id card:id
#mother:yes
print('enjoy the free bus')
#mother:no
conductor:pay the money
mother: how much
conductor: how many kilometers
mother : how much fare for km
conductor: 2rs:fare
total=dis*fare*

```
In [30]: import time
id1=input('Conductor: Do you have id yes or no? ')
if id1=='yes':
    print('Enjoy the free bus')
else:
    print('conductor:pay the money')
    time.sleep(2)
    print('mother: how much')
    time.sleep(2)
    print(' conductor: how many kilometers')
    time.sleep(2)
    print('mother : how much fare for km')
    fare=eval(input( 'conductor : the fare is rs per km'))
    distance=eval(input("mother: the distance in km is "))
    total =fare*distance
    print(f'The total cost is {total}')
```

```
Conductor: Do you have id yes or no? no
conductor:pay the money
mother: how much
conductor: how many kilometers
mother : how much fare for km
conductor : the fare is rs per km85
mother: the distance in km is 96
the total cost is 8160
```

```
In [31]: #even odd
#if else
#greater Less than zero
#if else
#yes no
#if else

#>0 pos      <0 neg      =0 zero
#if<con>      elif<con>    else

#>95 A      >75 B          >50 C      <50 D
#if<con>      elif<con>    elif<con>    else
```

```
In [35]: #WAP ask the user to input from keyboard
# if num is > 0 positive
# if num is < 0 negative
# if num is = 0 zero
num3=eval(input('Enter the number'))
if num3>0:
    print('The number is positive')
elif num3<0:
    print('The number is negative')
else:
    print('The number is zero')
```

Enter the number15
The number is positive

```
In [36]: #WAP ask the user to input from keyboard
# if num is == 0 print zero
# if num is == 1 print one
# if num is == 2 print two
# if num is > 2 print Greater than two

num4=eval(input('Enter the number'))
if num4==0:
    print('zero')
elif num4==1:
    print('one')
elif num4==2:
    print('two')
else:
    print('Greater than two')
```

Enter the number2
two

```
In [4]: #Wap ask the user enter a percentage
# if the percent between 45 to 60 c garde
# if the per between 60 to 75 b grade
# if the per between 75 to 90 a
# if the per below 45 fail
# if the per above 90 A+

marks=eval(input('Enter the percentage of the user:'))
if marks>45 and marks<60:
    print("C-Grade")
elif marks>60 and marks<75:
    print('B-GRADE')
elif marks>75and marks<90
    print('A-GRADE')
elif marks<45:
    print('Fail  ')
else:
    print("The grade is A+")

and
```

```
<>:13: SyntaxWarning: invalid decimal literal
<>:13: SyntaxWarning: invalid decimal literal
C:\Users\aramaiah.ASUAD\AppData\Local\Temp\ipykernel_16268\3142526073.py:13:
SyntaxWarning: invalid decimal literal
    elif marks>75and marks<90
```

```
Cell In[4], line 13
    elif marks>75and marks<90
        ^
```

SyntaxError: expected ':'

```
In [5]: per=eval(input('Enter the percentage'))
if per>=90:
    print('A+')
elif per>=75:
    print('A')
elif per>=60:
    print('B')
elif per>=45:
    print('C')
else:
    print('D')
```

Enter the percentage85
A

```
In [ ]: # WAP ask the user enter age
# if age>60: print senior citizen
# if age btw 45 to 60 : print aged
# if age btw 30 to 45 : print middle aged
# if age btw 20 to 30 : print young
# if age btw 13 to 19 prnt teenage
# otherwise print kid
```

```
In [8]: age=eval(input('Enter the percentage : '))
if age>=60:
    print('Senior Citizen')
elif age>=45:
    print('Aged')
elif age>=30:
    print("middle aged")
elif age>=20:
    print('young')
else:
    print('kid')
```

Enter the percentage : 89
Senior Citizen

```
In [15]: # # WAP ask the user enter distance:dis
# if distnce is greater thaan 50km
# again ask the enter the charge per km:2 rs:fare
# calculate the total charge:dis*fare
# if distance bw 30 to 50
# ask te user enter the charge per km :1 rs
# calculate the total charge
# if distance is less than 10
# print(free ride)

dis1= eval(input("Enter the distance to be travelled"))
if dis1> 50:
    fare=eval(input("Enter the charge per km:"))
    print(f"The distane entered is {dis1} km")
    print("For distance more tahn 50 2rs per km")
    total_charge1=dis1*fare

    print('total_charge1')
elif dis1>30:
    fare=eval(input("Enter the charge per km:"))
    print(f"The distane entered is {dis1} km")
    print("For distance more tahn 30 then 1rs per km")
    total_charge1=dis1*fare
    print(total_charge1)
elif dis1>10:
    fare=eval(input("Enter the charge per km:"))
    print(f"The distane entered is {dis1} km")
    total_charge1=dis1*fare
    print(total_charge1)
else:
    print('Its a free ride')
```

```
Enter the distace to be travelled56
Enter the charge per km:58
3248
```



```
In [ ]: # wap ask the user enter teh gender
# if gender equal to male
# ask the user enter age
#     if age>45 print aged male
#     if age between 30 to 45:print MA
#     if age between 15 to 30:print young man
#     if age is less tahn 15: print ('boy')

# if gender equal to female
# ask the user enter age
#     if age>45 print aged female
#     if age between 30 to 45:print MA female
#     if age between 15 to 30:print young female
#     if age is less tahn 15: print ('girl')

# else
# print('provide proper gender')

gender=input('Enter the gender if the gender is Male or Female')
if gender == 'Male':
    age7=eval(input('Enter the age of the male candidate'))
    if age7>=45:
        print('Aged Male')
    elif age7>=30:
        print('Middleaged Male')
    elif age7>=15:
        print('Young Man')
    else:
        print('boy')
elif gender == 'Female':
    age7=eval(input('Enter the age of the female candidate'))
    if age7>=45:
        print('Aged feMale')
    elif age7>=30:
        print('Middleaged feMale')
    elif age7>=15:
        print('Young feMale')
    else:
        print('girl')
else:
    print('Enter the appropriate gender')
```

```
In [26]: # WAP ask the user enter a number
# if number greater than or equal to zero
#     if numbeuql to zero : print("it is a zero")
#         else: print it is a pos number
# else
#     print it is a negative number

num5=eval(input("Enter a number"))
if num5>=0:
    if num5 ==0:
        print("It is zero")
    else:
        print("It is a positive number")
else:
    print("It is a negative number")
```

Enter a number78
It is a positive number

```
In [27]: num5=eval(input("Enter a number"))
if num5>0:
    print("It is a positive number")
elif num5 ==0:
    print("It is zero")
else:
    print("It is a negative number")
```

Enter a number45
It is a positive number

```
In [28]: #WAP to find the greater number between the given 3 numbers
# 50 75 100
# ans:100
A=eval(input('Enter the first number: '))
B=eval(input('Enter the second number'))
C=eval(input('Enter the third number'))
if A>B:
    print(f'{A} is the greater number')
elif B>A:
    print(f'{B} is the greater number')
else:
    print(f'{C} is the greater number')
```

Enter the first number: 89
Enter the second number85
Enter the third number1
89 is the greater number

In []: