In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [2]:

In [ ]:

In [4]:

```
# if -else

# whenever condition is true ==== if block # condition is false === else block

# Indentation is main

# wap ask the user enter a number
# find it is an even or odd
```

Out[4]: 23

In [8]:

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

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

46 is an even

In [ ]:

```
number

# step-1: read the number
# step-2: if <condition>:
# step-3: #########
# step-4: else:
# step-5: ##########

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

enter a number:38
38 is an even

# read a random number between 10 and 50 # find it is an even or odd number

# step-1: read the number randomly between 10 and 50 #
# step-2: if <condition>:
# step-3: #########
# step-4: else:
# step-5: ##########

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

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

##################M-3#################
#########
import random
num=random.randint(10,50)

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


num=25
num=eval(input("enter a number:"))
import random
num=random.randint(10,50)

enter a number:50
```

In [9]:

In [13]:

```
# wap ask the user enter the number
from keyboard between 1 to 100 #
print 'greater than 50' if the value
greater than 50 # else print 'less
than 50'

# step-1: num=<take the number from
keyboard>
# step-2: if <condition>:
# step-3: print("greater than 50")
# step-4: else:
# step-5: print('less than 50')

num=eval(input("enter the number:"))
if num>=50:
 print("greater than or equal to 50")
else:
 print("less than 50")

enter the number:50
greater than 50
```

In [19]:

```
#############
M-1#################################
num=25
if num%2==0:
 print(f"{num} is an even")
else:
 print(f"{num} is an odd")

###################
M-2#################
num=eval(input("enter a number:"))

# Improvise above code by providing a
random number
num=random.randint(1,100)
if num>=50:
 print(f"{num} greater than or equal
to 50")
else:
 print(f"{num} less than 50")
```

```
71 greater than or equal to 50
```

In [ ]:

```
num1=random.randint(1,10)
num2=eval(input("Enter a
number:"))
if num1==num2:
 print("you won")
else:
 print("you lost")

Enter a number:7
you lost
```

In [33]: In [ ]:

```
# wap
# conductor: show me id card
# id=mother: yes
# if id=='yes':
# print("enjoy the free bus")

# ----mother: no
# else:
# conductor: pay the money
# mother: how much
# conductot: how many km
# mother: 25km: distance
# mother: how much fare for km
# conductor: 2rs: fare
# total= dis*fare
# print('total')
```

In [40]:

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

# step-1: num1= <>
# step-2: num2= <>
# step-3: if <condition>:
# step-4: print("you won")
# step-5: else:
# step-6: print("you lost")
```

```
input("conductor:")
id1=input("mother:")
if id1=='yes':
 print("enjoy the free trip")

else:
 input("conductor:") # pay the
money
 input("mother:") #how much
 input("conductor:") # how many km
 dis=eval(input("mother:")) # 25k
 input("mother:") #how much fare
for km
fare=eval(input("conductor:"))
#2rs: fare
 total= dis*fare
 print(f"for the distance {dis},
total cahrge is {total}")
```

```
import random
```

```
conductor:show
mother:yes
enjoy the free trip
```

In [42]:

```
id1=input("mother:")
if id1=='yes':
 print("enjoy the free trip")
else:
 print("conductor: pay the money") # pay
the money  time.sleep(2)
 print("mother: how much") #how much
 time.sleep(2)
 print("conductor: how many km") # how
many km
 time.sleep(2)
 dis=eval(input("mother:")) # 25k
 print("mother: how much fare for km")
#how much fare for km  time.sleep(2)
 fare=eval(input("conductor:")) #2rs: fare
 total= dis*fare
 print(f"for the distance {dis}, total
cahrge is {total}")
```

```
conductor:show
mother:no
conductor: pay the money
mother: how much
conductor: how many km
mother:25
mother: how much fare for km
conductor:2
for the distance 25, total cahrge is 50
```

In [ ]: In [ ]:

```
# even odd
# if else
# greater less than
# 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 elif elif else
```

```
import time

input("conductor:")
```

In [ ]: In [43]:

sir please show them google class room for notes just now I added some stude

```
                                    # if num is equal to one :
                                    print("one")
                                    # if num is equal to two :
                                    print("two")
                                    # if num is greater than to two :

                                    print("greater than two") # if

                                    elif elif else
```

In [ ]: In [5]:

```
                                    num1=eval(input("enter a num:"))
                                    if num1==0:
                                     print("zero")
                                    elif num1==1:
                                     print("one")
                                    elif num1==2:
                                     print("two")

# wap ask the user enter a number   else:
from keyboard # if num greater      print("greater than two")
than zero : print("pos")
# if num less than zero :           enter a num:4
print("neg")                       greater than two
# if num equal to zero:
print('zero')
                                    # WAP ask the user enter a
                                    percentage
num = eval(input("Enter a number:   # if the per between 45 to 60 C
"))                                 grade
if num > 0:                         # if the per between 60 to 75 B
 print("Postive")                   # if the per between 75 to 90 A
elif num < 0:                       # if the per below 45 fail
 print("Negative")                  # if the per above 90 A+
else:
 print("Zero")
                                    per=eval(input("enter ur
                                    percentage:"))
# wap ask the user enter a number
from keyboard # if num is equal to  enter ur percentage:89
zero : print("zero")
```

In [ ]: In [9]:

```
                          >90 ======== if
                          75 to 90 === elif
                          60 to 75 === elif
                          45 to 60 === elif
                          <45 ==== else


                          per=82
                          if per>=90: # 91>90 T
                           print("A+")
                          elif per>=75: # 90>75 T
                           print("A")
                          elif per>=60: # 90>60 T
                           print("B")
                          elif per>=45:
                           print("C")
In [12]:                  else:
<45                        print("D")
45 to 60
60 to 75                  D
75 to 90
>90
                          # WAP ask the user enter
```

```
age
# if age > 60 : print sc
# if age between 45 to 60 :
print aged # if age between
30 to 45 : print middile
aged # if age betweem 20 to
30: print young # if age
between 13 to 19 print
teenage # otherwise: print
kid
age=eval(input("enter the
age:"))

if age>=60:
 print("SC")
elif age>=45: # 45 to 59
 print("aged")
elif age>=30: # 30 to 44
 print("MA")
elif age>=20:
 print("young")
elif age>=13:
 print("teenage")
else:
 print("kid")

enter the age:25
young
In [17]:
# WAP ask the user enter
distance : dis
# if distance is greater
than 50km
# agian ask the enter the
charge per km: 2rs : fare #
calculate the total charge
= dis*fare

# if distance between 30 to
50
# ask the user enter the
charge per km: 1rs #
calculate the total charge

# if distance between 10 to
30
# ask the user enter the
charge per km: 0.5rs #
calculate the total charge

# if distance less than 10
# print(free ride)

dis=eval(input("enter the
distance"))
if dis>=50:
 print(f"your distance is
{dis}km")
 print("for distance more
than 50 2 rs km")
fare=eval(input("enter the
charge per km"))
total=dis*fare
 print(f"for the {dis} km
total fare is {total}")
elif dis>=30:
 print(f"your distance is
{dis}km")
 fare=eval(input("enter the
charge per km"))
total=dis*fare
 print(f"for the {dis} km
total fare is {total}")
elif dis>=10:
 print(f"your distance is
{dis}km")
 fare=eval(input("enter the
charge per km"))
total=dis*fare
 print(f"for the {dis} km
total fare is {total}")
else:
 print(f"your distance is
{dis}km")
 print("free ride")

enter the distance25
your distance is 25km
enter the charge per km0.5
for the 25 km total fare is
12.5
In [ ]: In [18]:
# wap ask the user enter
gender = input() # if
gender equal to male
gender=='male' # ask the
user enter age
# if age>45 print aged man
# if age between 30 to 45 :
print (MA man) # if age
between 15 to 30 :
print(young man) # if age
less than 15: print ("boy")

#if gender equal to female
# ask the user enter age
# if age>45 print aged
```

```
woman
# if age between 30 to 45 : # else:
print (MA woman) # if age   # print("provide proper
between 15 to 30 :          gender")
print(young girl) # if age
less than 15: print
("girl")                    'Male'==' Male'
```

```
Out[18]: False
```

```
In [20]:
gender=input('Enter the gender if
the gender is Male or Female') if
gender ='Male':
 age=eval(input('Enter the age of
the male candidate'))  if age>=45:
 print('Aged Male')
 elif age>=30:
 print('Middleaged Male')
 elif age>=15:
 print('Young Man')
 else:
 print('boy')

elif gender ='Female':
 age=eval(input('Enter the age of
the female candidate'))  if age>=45:
 print('Aged feMale')
 elif age>=30:                      In [ ]: In [ ]:
 print('Middleaged feMale')
 elif age>=15:
 print('Young feMale')
 else:
 print('girl')
else:
 print('Enter the appropriate
gender')
```

```
Enter the gender if the gender is
Male or Female Male Enter the age of
the male candidate45
Middleaged Male
In [23]:
```

```
# wap ask the user enter a number
# if number greater than or 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

num=eval(input("enter the number:"))
if num>=0:
 if num==0:
 print("it is a zero")
```

```
 else:
 print("it is a pos number")
else:
 print("it is a neg number")
```

```
enter the number:0
it is a zero
```

```
num=eval(input("enter the number:"))
# 0
if num>0: # 0>0 F
 print("it is a pos number")
elif num<0: # 0<0 F
 print("it is a neg number")
else:
 print("it is a zero")
```

```
num=eval(input("enter the number:"))
if num>=0: #0>=0 T
 if num==0: #0==0 T
 print("it is a zero")
 else:
 print("it is a pos number")
else:
 print("it is a neg number")
```

```
# wap find the greater number
between the given three numbers # 50
75 100
# ans: 100
```