In []:

In [2]:

```
marks = int(input("enter your marks"))
if marks >90:
    print("your Grade is A")
elif marks >80 and marks <=90:
    print("your Grade is B")
elif marks >=60 and marks <=80:
    print("your Grade is C")
else:
    print(" your Grade D")</pre>
```

enter your marks88 your Grade is B

In []:

```
# Q.2- write a program to accept the cost price of a bike and display the road tax to be Tax Grade
15% >100000
10% >50000 and <=100000
5% <=50000
```

In [4]:

```
price =int(input("enter the price Of bike"))
if price >100000:
    print("your road tax is 15%")
elif price >50000 and price <=100000:
    print("your road tax is 10%")
else:
    print("your road tax is 5%")</pre>
```

enter the price Of bike90000 your road tax is 10%

In []:

```
# Q.3- Accept any city from the user and display monuments of that city:
CITY MONUMENT
Delhi Red Fort
Agra Taj Mahal
Jaipur Jal Mahal
```

```
In [5]:
```

```
city = input("enter your city")
if city== "Delhi":
    print("monument of your city is Red Fort")
if city== "Agra":
    print("monument of your city is Agra")
if city== "Jaipur":
    print("monument of your city is Jaipur")
```

enter your cityAgra
monument of your city is Agra

In []:

Q.4- check how many times a given number can be divided by 3 before it is less than or

In [8]:

```
num=int(input("enter the numbers"))
count = 0
while num >10:
    num=num/3
    count +=1
    print(count)
```

enter the numbers9

In []:

Q.5- Why and When to use while loop in python give a detailed description with example:

In [10]:

```
'''ANS=> paython while loop is used to run a block code until a certain condition is met.
    The syntax of while loop is:
    while condition:
    # body of while loop
Here,
    A while loop evaluates the condition
    If the condition evaluates to True, the code inside the while loop is executed.
    condition is evaluates again:
    this process coontinues until the condition is False.
    when condition evaluates to False, the loop stops'''
```

Out[10]:

'ANS=> paython while loop is used to run a block code until a certain cond ition is met.\n The syntax of while loop is:\n while condition:\n # body of while loop\n Here,\n A while loop evaluates the condition\n If the condition evaluates to True, the code inside the while loop is executed.\n condition is evaluates again:\n this process coontinues until the condition is False.\n when condition evaluates to False, the loop stops'

```
In [ ]:
```

```
# Q.6- Use nested while loop to print 3 diffrent pattren:
```

In [22]:

```
# Pattren 1:
i=1
while i<=5:
    j=1
    while j<=i:
        print("*", end="")
        j +=1
    print ("")
    i +=1
print("----")
#Pattren 2:
i=5
while i >= 1:
    j=i
    while j>=1:
        print("*", end="")
        j -=1
    print ("")
    i -=1
print("----")
#Pattren 3:
i=5
while i>=1:
    j=1
    while j < = 5:
        if j >=i:
            print("*", end="")
        else:
            print("", end="")
        j +=1
    print ("")
    i -=1
```

```
In [ ]:
```

```
# Q.7-Reverse a while loop in paython numbers from 10 to 1:
```

In [25]:

```
i=10
while i>0:
    i=i-1
    print(i)
```

In []:

0

localhost:8888/notebooks/assinment 2.ipynb