In [4]:
```python
1.
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 is D")
```

your grade is C

In [5]:
```python
2.
cost_price_bike=int(input("enter cost price of bike: "))

if cost_price_bike>100000:
    print("road tax to be paid for this bike is 15%")
elif cost_price_bike>50000 and cost_price_bike<=100000:
    print("road tax to be paid for this bike is 10%")
else:
    print("road tax to be paid for this bike is 5%")
```

road tax to be paid for this bike is 10%

In [1]:
```python
3.
print("DELHI,AGRA,JAIPUR")

city=input("select city from above options: ")

if city.upper()=="DELHI":
    print("red fort is located ")

elif city.upper()=="AGRA":
    print("taj mahal is located ")

elif city.upper()=="JAIPUR":
    print("jal mahal ia=s located ")

else :
    print ("sorru you have selected wrong option ")
```

DELHI,AGRA,JAIPUR

red fort is located

```
In [1]: num=int(input("enter your no: "))
        count=0
        while num>=10:
                if num%3==0:
                    if num/3<10:
                        break
                    else:
                        num=num/3
                        count=count+1
                else:
                        break
        print(count)
```

```
1
```

```
In [ ]: 5.why and when to use while loop in python give a detailed description with example
        ->while loop is used to repeat a specific block of code an unknown number of times
```

```
In [4]: 6.
        n=5;i=0
        while (i<=n):
            print(" "* (n-i)+"*" * i)
            i+=1
```

```
    *
   **
  ***
 ****
*****
```

```
In [5]: 7.
        num=123456789
        reversed_no=0

        while num!=0:
            digit=num%10
            reversed_no=reversed_no*10+digit
            num//=10

        print("reversed number: "+str(reversed_no))
```

```
reversed number: 987654321
```

```
In [ ]:
```