In [1]:
```
#Even or Odd
n=int(input("enter a number :"))
if n%2==0:
    print(f"the given number {n} is an even number")
else:
    print(f"the given number {n} is a composite number")
```

```
enter a number :34
the given number 34 is an even number
```

In [2]:
```
#positive or negative or zero
n=int(input("enter a number :"))
if n==0:
    print("n is 0")
elif n>0:
    print("n is positive")
else:
    print("n is negative")
```

```
enter a number :34
n is positive
```

In [3]:
```
#largest among two numbers
a=int(input("enter number a :"))
b=int(input("enter number b :"))
if a>b:
    print(f"{a} is graterthan {b}")
else:
    print(f"{b} is graterthan {a}")
```

```
enter number a :23
enter number b :43
43 is graterthan 23
```

In [4]:
```
#largest among three numbers
a=int(input("enter number a :"))
b=int(input("enter number b :"))
c=int(input("enter number c :"))
if a>b and a>c:
    print("a is larger")
elif b>a and b>c:
    print("b is larger")
else:
    print("c is larger")
```

```
enter number a :23
enter number b :43
enter number c :54
c is larger
```

In [5]:
```
#eligibilty chek of voter
v=int(input("enter your age :"))
if v>18:
    print("you are eligible")
else:
    print("you are not eligible")
```

```
enter your age :34
you are eligible
```

In [6]:
```
#Leap year check
y=int(input("enter an year to check :"))
if y%4==0 or y%400==0:
    print("it is leap year :")
else:
     print("it is not leap year")
```

```
enter an year to check :2020
it is leap year :
```

In [7]:
```
a=input("enter d for domestic or enter c for comersial user :")
mno=int(input("enter bill no. "))
c=float(input("enter current reading :"))
p=float(input("previous reading"))
r=c-p
if a=='d' or a=='D':
    if r>=0 and r<=100:
        bill=r*0.5
    elif r>100 and r<=200:
        bill=100+r*0.5
    elif r>200:
        bill=150+r*0.5
    else:
        print("invalid current input")
elif a=='c' or a=='C':
    if r>=0 and r<=100:
        bill=r*0.75
    elif r>100 and r<=200:
        bill=120+r*0.75
    elif r>200:
        bill=200+r*0.75
    else:
        print("invalid current input")
print(f"The current bill of this month is {bill}")
```

```
enter d for domestic or enter c for comersial user :d
enter bill no. 299120100
enter current reading :450
previous reading120
The current bill of this month is 315.0
```

In [11]:
```
#product bill generation
items=['pen','pencil','notebook']
price=[10,5,50]
print("items  ",items)
print("prices ",price)
print("------select the items you want purchase--------")
a=int(input("no. of pens :"))
b=int(input("no. of pencils :"))
c=int(input("no. of notebooks :"))
print("price of pens =",a*10)
print("price of pencils=",b*5)
print("price of notebooks = ",c*50)
p=a*10+b*5+c*50
print("total price =",p)
```

```
items   ['pen', 'pencil', 'notebook']
prices  [10, 5, 50]
------select the items you want purchase--------
no. of pens :2
no. of pencils :3
no. of notebooks :1
price of pens = 20
price of pencils= 15
price of notebooks =  50
total price = 85
```

In [12]:
```
#grading student based on percentage
per=float(input("enter the percentage of student :"))
if per>=90:
    print("Grade : A+")
elif per>=80 and per<90:
    print("Grade : A")
elif per>=70:
    print("Grade : B+")
elif per>=60:
    print("Grade : B")
elif per>=50:
    print("Grade : C")
elif per>=40:
    print("Grade : D")
elif per>=36:
    print("Grade : E")
else:
    print("The student failed in the exam")
```

```
enter the percentage of student :93
Grade : A+
```

In [13]:
```
a=input("enter a charecter")
n=['a','e','i','o',u]
t=a in n
print(t)
```

```
enter a charectero

---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-13-7b840670c31e> in <module>()
      1 a=input("enter a charecter")
----> 2 n=['a','e','i','o',u]
      3 t=a in n
      4 print(t)

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

In [ ]:
```

```