

In [1]:

```
#take character input from user
a=input("enter any character: ")
#check for alphabet and digit.
if a.isalpha() :
    print ("/n"+a,"is A ALPHABET")
elif a.isdigit() :
    print ("/n"+a,"is A DIGIT.")
else:
    print ("/n"+a,"is A SYMBOL.")
```

enter any character: HARIHARAN
/nHARIHARAN is A ALPHABET

In [3]:

```
#tack character input from user
a = input("enter any character: ")
#check for vowel and constant.
if(a=='A' or a=='a' or a=='E' or a=='e' or a=='I' or a=='i' or a=='O' or a=='o' or a=='U' or a=='u') :
    print (a,"is a vowel. ")
else:
    print (a,"is a consonant")
```

enter any character: I
I is a vowel.

In [1]:

```
#tack character input from user
a = input("enter any character: ")
#check for vowel and constant.
if(a=='A' or a=='a' or a=='E' or a=='e' or a=='I' or a=='i' or a=='O' or a=='o' or a=='U' or a=='u') :
    print (a,"is a vowel. ")
else:
    print (a,"is a consonant")
```

enter any character: B
B is a consonant

In [2]:

```
#take integer input from user
num=-20
if num>0:
    print("positive number.")
else:
    print("negative number.")
```

negative number.

In [8]:

```
#take two different values from user input.
#"=="
a=[12,32,15]
b=[12,30,15]

#comparing using "==" operation.
if a==b:
    print('yes')
else:
    print('no')
```

no

In [7]:

```
import math as m
x=float(input("enter the number 1 :"))
y=float(input("enter the number 2 :"))
print("a)",abs(x))
print("b)",m.sqrt(x))
print("c)",m.exp(x))
print("d)",m.log(x))
print("e)",m.pow(x,y))
print("f)",m.ceil(x))
print("g)",max(x,y))
print("h)",min(x,y))
```

enter the number 1 :12
enter the number 2 :5
a) 12.0
b) 3.4641016151377544
c) 162754.79141900392
d) 2.4849066497880004
e) 248832.0
f) 12
g) 12.0
h) 5.0

In [10]:

```
num1=344.767
num2=567.12367
num3=12300000
print("{:9.2f}".format(num1))
print("{:5.3f}".format(num2))
print("{:,.3e}".format(num3))
```

344.77
567.124
1.230e+07