```
#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: BULLET
/nBULLET is A ALPHABET.
```

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

```
enter any character: G
G is a consonant
```

```
#take integer input from user
num=15
if num>0:
  print("positive number.")
else:
  print("negative number.")
```

```
positive number.
```

```
#Evaluating the expression.
P=(20*1+100*2+6*4+8*2)
X3=(P-(118*2))
print(X3)
```

```
24
```

```
#Arithmetic operation.
a=15
b=26
#Addition of numbers
add = a + b
#subtraction of numbers
sub = a - b
```

```
#division(float) of number
div1 = a / b
#division(floor) of number
div2 = a // b
#modulo of both number
mod = a % b
#power
p = a ** b
#print results
print(add)
print(sub)
print(mul)
print(div1)
print(div2)
print(mod)
print(p)
```

```
41
-11
390
0.5769230769230769
0
15
37876752441063523292541503906 25
```

```
#take two different values from user input.
# "=="
a=[11, 15, 26]
b=[11, 26, 15]

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

```
no
```

```
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 1:10
enter the number 2:15
a) 10.0
```

```
c) 22026.465794806718
d) 2.302585092994046
e) 1000000000000000.0
f) 10
g) 15.0
h) 10.0
```

```
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
```