```
# 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 special character.")
```

```
enter any character :Sherlin

Sherlin is a Alphabet.
```

```
#taking user input
a=input("enter a character:")
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 a character:S
S is a consonant
```

```
#The user enter a number and check if the number is positive or negative
num =float(input("enter a number: ") )
if num>0:
   print("positive number")
else:
   print("negative number")
```

```
enter a number: 4
positive number
```

```
#To the given expression
p= (30*1+100*2+6*4+3*8)
X3=p-(118*2)
print(X3)
```

```
42
```

```
#Arithmetic operation
a=27
b=11
#Addittion of numbers
add = a + b
#Substraction of numbers
sub = a - b
#multiplication of numbers
mul = a * b
#division(float) of numbers
div1 = a / b
```

```
#division(floor) of numbers
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)
```

```
      38
      16
      297
      2.4545454545454546
      2
      5
      5559060566555523
```

```
num1=int(input("Number 1:"))
num2=int(input("Number 2:"))
if num1>num2:
   print("Number 1 is greater than Number 2")
elif num1<num2:
   print("Number1 is less than Number 2")
else:
   print ("Number1 is equal to Number2")
```

```
      Number 1:20
      Number 2:24
      Number1 is less than Number 2
```

```
import math as m
x=float(input("enter Number1:"))
y=float(input("enter Number2:"))
print("i)",abs(x))
print("ii)",m.sqrt(x))
print("iii)",m.exp(x))
print("iv)",m.log(x))
print("v)",m.pow(x,y))
print("vi)",m.ceil(x))
print("vii)",max(x,y))
print("VIII)",min(x,y))
```

```
      enter Number1:22
      enter Number2:17
      i) 22.0
      ii) 4.69041575982343
      iii) 3584912846.131592
      iv) 3.091042453358316
      v) 6.624995291945943e+22
      vi) 22
      vii) 22.0
      VIII) 17.0
```

```
n1=344.767
n2=567.12367
n3=12300000
print("{:9.2f}".format(n1))
print("{:5.3f}".format(n2))
print("{:.3e}". format(n3))
```

```
   344.77
567.124
1.230e+07
```