```
chrct=input("Enter any character : ")
if ((chrct>='a' and chrct<='z') or (chrct>='A' and chrct<='z')):
    print("You typed,",chrct,"is an Alphabet")
elif (chrct>='0'):
    print("You typed,",chrct,"is a Digit")
else:
    print("You typed,",chrct,"is a Special character")
```

```
 Enter any character : p
 You typed, p is an Alphabet
```

```
alph=input("Enter an Alaphapet : ")
if alph in ('a','e','i','o','u','A','E','I','O','U'):
   print("You typed,",alph,"is a Vowel")
elif ((alph<='a' and alph>='z') or (alph<'A'and alph>='z') and alph!='a','e','i','o',
   print("You typed,",alph,"is a constant")
```

```
 Enter an Alaphapet : d
 You typed, d is a constant
```

```
num=int(input("Enter a number : "))
if num>0:
   print(num,"is a Positive Number.")
elif num==0:
   print(num,"is a Zero(neutal).")
else:
    print(num,"is a Negative Number.")
```

```
 Enter a number : -89
 -89 is a Negative Number.
```

```
p=20*1+100*2+6*4+3*8
X3=(p-(118*2))
print(X3)
```

```
 32
```

```
a=float (input("Enter Number 1 :"))
b=float (input("Enter Number 2 :"))
add=a+b
sub=a-b
mul=a*b
div=a/b
remainder=a%b
print(f"{a} + {b} = {add}")
print(f"{a} - {b} = {sub}")
print(f"{a} * {b} = {mul}")
```

```
print(f"{a} / {b} = {div}")
print(f"{a} % {b} = {remainder}")
```

```
Enter Number 1 :7
Enter Number 2 :3
7.0 + 3.0 = 10.0
7.0 - 3.0 = 4.0
7.0 * 3.0 = 21.0
7.0 / 3.0 = 2.3333333333333335
7.0 % 3.0 = 1.0
```

```
c=int(input("Enter 1st number : "))
d=int(input("Enter 2nd number : "))
c is d
```

```
Enter 1st number : 2
Enter 2nd number : 3
False
```

```
import math as m
x=float (input("Enter Number 1 :"))
```

```
y=float (input("Enter Number 2 :"))
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 Number 1 :16
Enter Number 2 :25
i) 16.0
ii) 4.0
iii) 8886110.520507872
iv) 2.772588722239781
v) 1.2676506002282294e+30
vi) 16
vii) 25.0
viii) 16.0
```

```
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
```