

```

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")

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Enter any character : s
You typed, s is an Alphabet

```

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alph=input("Enter an Alphabet : ")
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','u')
    print("You typed,",alph,"is a Consonant")

```

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Enter an Alphabet : j
You typed, j is a Consonant

```

```

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

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Enter a number : 20
20 is a Positive Number.

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

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```

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

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```
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 : 5
Enter 2nd number : 4
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 :14
Enter Number 2 :27
i) 14.0
ii) 3.7416573867739413
iii) 1202604.2841647768
iv) 2.6390573296152584
v) 8.819763977946281e+30
vi) 14
vii) 27.0
viii) 14.0
```

```
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
```

