

1. Write a program to print the type(category) of the supplied char from stdin. The categories are Numeric/Uppercase/lowercase/spl char.

input1:'A'

input2:'a'

output1:upper case

output2:lower case

input3:'8'

input4: '*'

output 4:special character

output3:numeric

2. Write a program to find the greatest of three integers.

input : num1: 100

num2:200

num3:50

output:num2 is greatest

3. Convert the case of a supplied alphabet. If user supplied lowercase then convert to uppercase and vice-versa.

input1:'a'

input 2:'A'

output2:'A'

output 2:'a'

4.Program to test whether the entered character is alphabet or non-alphabet.

input1:'A'
output:alphabet

input 2:'*'
output 2:non alphabet

5.wap to calculate x^y

input	output
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x:2	32
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y:5	
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5.verify that y is a positive power of x or not

input 1: x: 2
y:20

input2: x:3
y:81

output1:NO

output2:yes

6.C Program to Check if a Given Number is a Palindrome

input 1:1221
output 1:palindrome

input2:1234
output 2:not a palindrome

9. C Program to Check if a Given Number is a Prime

input1: 15

output1:non prime

input 2:3

output2:prime

10.C Program to find out the grade of a student when the marks of 4 subjects are given. The method of assigning grade is as

$\text{per} \geq 85$ grade A

$\text{per} < 85$ and $\text{per} \geq 70$ grade=B

$\text{per} < 70$ and $\text{per} \geq 55$ grade=C

$\text{per} < 55$ and $\text{per} \geq 40$ grade=D

$\text{per} < 40$ grade=E here per=percentage