TOKENIZATION

Tokenization – To identify whether the entered character is a digit or alphabet or a operator

**Program:**

#include<stdio.h>  
#include<string.h>  
int main(){   
 char option;  
 do{  
 char n;  
 printf("\n enter character:");  
 scanf(" %c",&n);  
 if(n>='A'&& n<='Z'){  
 printf(" \n %c is a uppercase",n);  
 }  
 else if(n>='a'&& n<='z'){  
 printf(" \n %c is a lowercase",n);  
 }  
 else if(n>='0' && n<='9'){  
 printf(" \n %c is a number",n);  
 }  
 else if(n=='+'||n=='-'){  
 printf("\n %c is a arithmetic operator",n);  
 }  
 else if(n=='%'||n=='('||n==')'||n=='\*'){  
 printf("\n %c is a special character",n);  
 }  
 else if(n=='<'||n=='>'){  
 printf("\n %c is relational operator",n);  
 }  
 else{  
 printf("\n enter a valid character");  
 }  
 printf("\n do you want to continue:");  
 scanf(" %c",&option);  
 }while(option=='y');  
 return 0;  
}

**Output:**

