1. #include<stdio.h>
2. #include<string.h>
4. int digit(char);
6. int main(){
8. char roman\_Number[1000];
9. int i=0;
10. long int number =0;
12. printf("Enter any roman number (Valid digits are I, V, X, L, C, D, M): **\n**");
13. scanf("%s",roman\_Number);
15. while(roman\_Number[i]){
17. if(digit(roman\_Number[i]) < 0){
18. printf("Invalid roman digit : %c",roman\_Number[i]);
19. return 0;
20. }
21. if((strlen(roman\_Number) -i) > 2){
22. if(digit(roman\_Number[i]) < digit(roman\_Number[i+2])){
23. printf("Invalid roman number");
24. return 0;
25. }
26. }
28. if(digit(roman\_Number[i]) >= digit(roman\_Number[i+1]))
29. number = number + digit(roman\_Number[i]);
30. else{
31. number = number + (digit(roman\_Number[i+1]) - digit(roman\_Number[i]));
32. i++;
33. }
34. i++;
35. }
37. printf("Its decimal value is : %ld",number);
39. return 0;
41. }
43. int digit(char c){
45. int value=0;
47. switch(c){
48. case 'I': value = 1; **break**;
49. case 'V': value = 5; **break**;
50. case 'X': value = 10; **break**;
51. case 'L': value = 50; **break**;
52. case 'C': value = 100; **break**;
53. case 'D': value = 500; **break**;
54. case 'M': value = 1000; **break**;
55. case '**\0**': value = 0; **break**;
56. default: value = -1;
57. }
59. return value;
60. }