**Q3 Numbers spell out**

**Explanation**

**Step 1.** First include three header file #include<stdio.h> , #include<stdlib.h> and #include<string.h>

**Step 2.** Then we create a function named as void numbers\_to\_words(char \*n) that takes character pointer n as an parameter and its return type is void then we find out the length of that character n by using strlen() function of string.

**Step 3.** On the basis of length of character if length(len) is equal to 0 then it print that No number entered and if length is greater than 4 then it prints that length more than 4 is not supported.

**Step 4.** After this the function contains 4 character pointer array named as one\_digits[], two\_digits[], tens\_multiple[], tens\_power[] that contains string like “one”, “three”, “….”, “eleven”, “fifteen”, “….”, thirty”, “sixty”,”….”, “hundred” and “thousand”.

**Step 5.** Then a while loop runs till we traversed each and every character of character pointer n and reaches the end of the character pointer n i.e. ‘\0’ after each iteration the value gets incremented.

**Step 6.** Inside while loop on the basis of length of character and on the basis of the value of each character of n we check whether it is belongs to one\_digit[] or two\_digits[] or tens\_multiple[] or tens\_power[] .

**Step 7.** Then inside the main function we passes the argument to the function named numbers\_to\_words(“21”) here 21 is an argument as an example and whenever it satisfy the condition it applies the logic and print the respective number in its words form.