

## PART 2

Source Code:

```
#include<stdio.h>
#include<string.h>

int main()
{
    char smallest[100], largest[100];
    int i = 0;
    char temp[100];
    while(1)
    {
        printf("Enter word: ");
        scanf("%s", temp);
        if(i == 0)
        {
            strcpy(smallest, temp);
            strcpy(largest, temp);
        }
        else
        {
            if(strcmp(temp, smallest) < 0)
            {
                strcpy(smallest, temp);
            }
            if(strcmp(temp, largest) > 0)
            {
                strcpy(largest, temp);
            }
        }
        if(strlen(temp) == 4)
        {
            break;
        }
        i++;
    }
    printf("\nSmallest word: %s\n", smallest);
    printf("Largest word: %s\n", largest);
}
```

## 2. Screenshot of the output

```
1 #include<stdio.h>
2 #include<string.h>
3
4 int main()
5 {
6     char smallest[100], largest[100];
7     int i = 0;
8     char temp[100];
9     while(1)
10    {
11        printf("Enter word: ");
12        scanf("%s", temp);
13        if(i == 0)
14        {
15            strcpy(smallest, temp);
16            strcpy(largest, temp);
17        }
18        else
19        {
20            if(strcmp(temp, smallest) < 0)
21            {
22                strcpy(smallest, temp);
23            }
24            if(strcmp(temp, largest) > 0)
25            {
26                strcpy(largest, temp);
27            }
28        }
29        i++;
30    }
31}
```

Input

```
Enter word: dog
Enter word: zebra
Enter word: rabbit
Enter word: catfish
Enter word: walrus
Enter word: cat
Enter word: fish

Smallest word: cat
Largest word: zebra

...Program finished with exit code 0
Press ENTER to exit console.[]
```