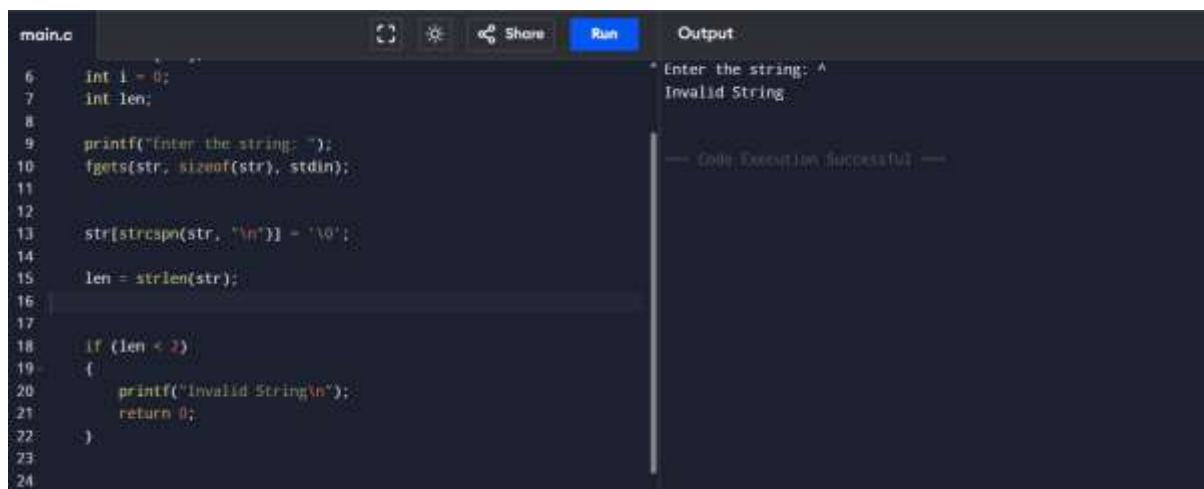


PRACTICAL:1defination:

## String Validation Against Regular Expression

## Ex:1

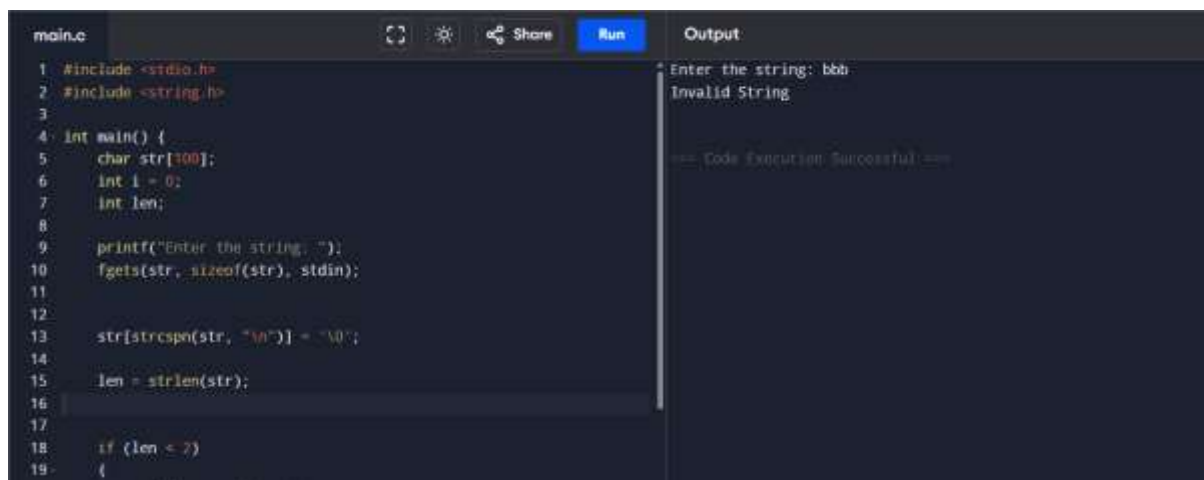


```
main.c  Run  Output
6   int i = 0;
7   int len;
8
9   printf("Enter the string: ");
10  fgets(str, sizeof(str), stdin);
11
12  str[strcspn(str, "\n")] = '\0';
13
14  len = strlen(str);
15
16
17
18  if (len < 2)
19  {
20      printf("Invalid String\n");
21      return 0;
22  }
23
24
```

Enter the string: ^  
Invalid String

Code Execution Successful

## Ex:2

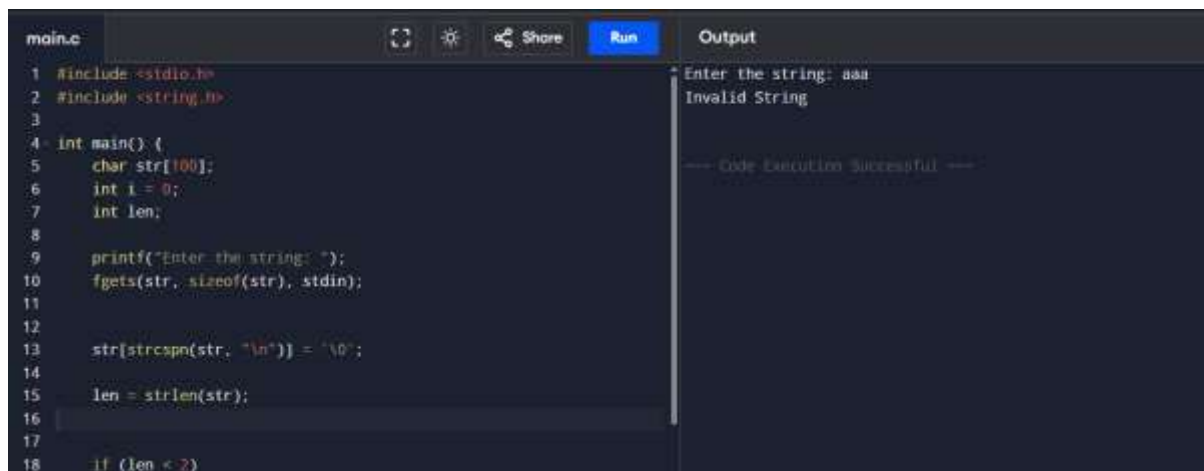


```
main.c  Run  Output
1  #include <stdio.h>
2  #include <string.h>
3
4  int main() {
5      char str[100];
6      int i = 0;
7      int len;
8
9      printf("Enter the string: ");
10     fgets(str, sizeof(str), stdin);
11
12
13     str[strcspn(str, "\n")] = '\0';
14
15     len = strlen(str);
16
17
18     if (len < 2)
19     {
```

Enter the string: bbb  
Invalid String

Code Execution Successful

## Ex:3



```
main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
```

Enter the string: aaa  
Invalid String

--- Code Execution Successful ---

## Ex:4

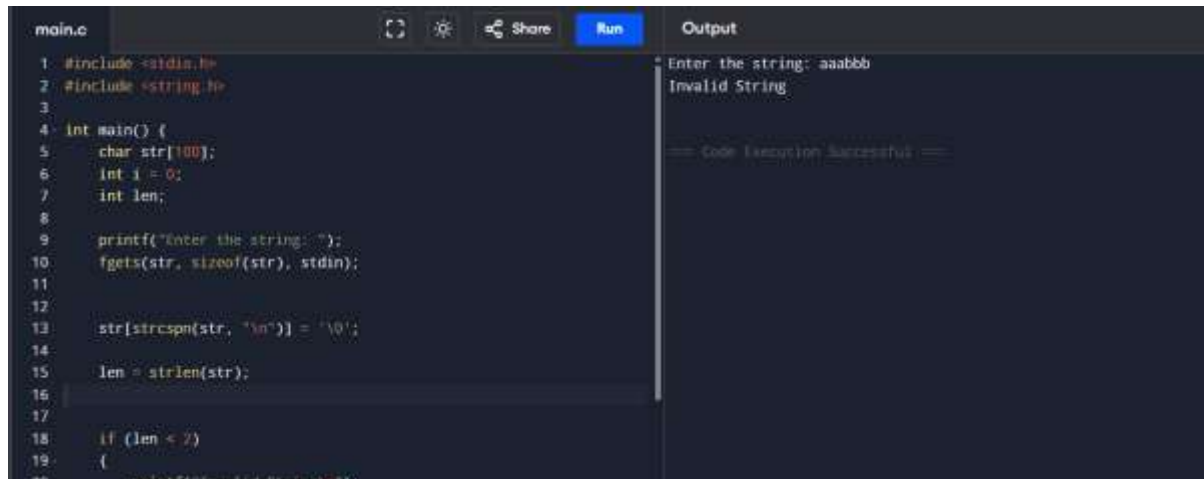


```
main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
19    {
```

Enter the string: baaabb  
Invalid String

--- Code Execution Successful ---

## Ex:5

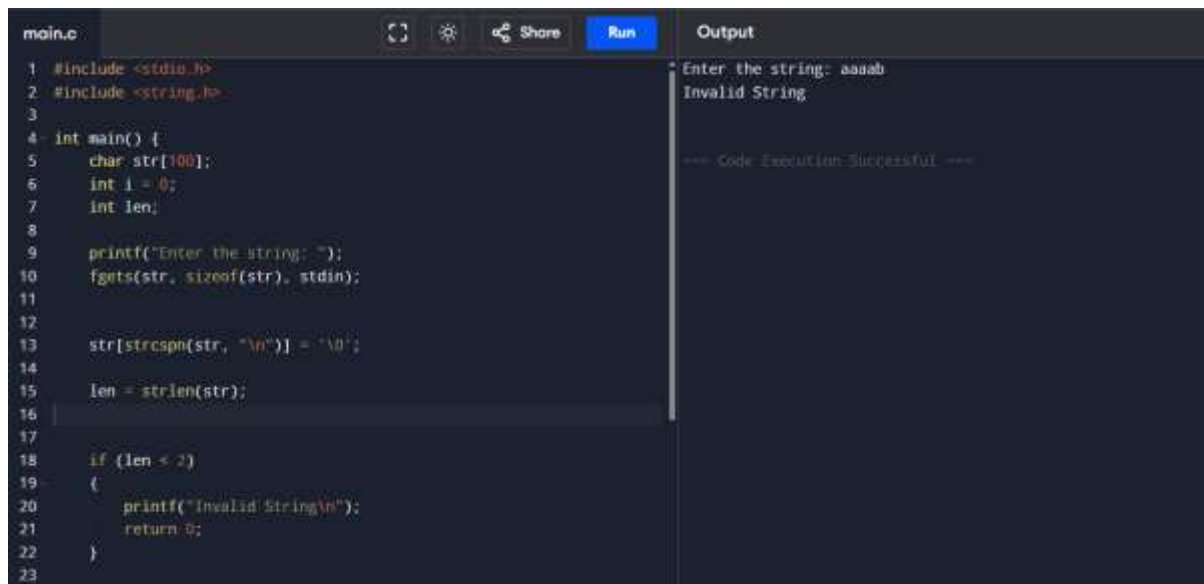


```
main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
19    {
20        printf("Invalid String\n");
21    }
22 }
```

Enter the string: aaabbb  
Invalid String

== Code Execution Successful ==

## Ex:6



```
main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
19    {
20        printf("Invalid String\n");
21        return 0;
22    }
23 }
```

Enter the string: aaaab  
Invalid String

== Code Execution Successful ==

## Ex:7

```

main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
19    {
20        printf("Invalid String\n");
21        return 0;
22    }

```

Enter the string: abbabb  
Invalid String

--- Code Execution Successful ---

## Ex:8

```

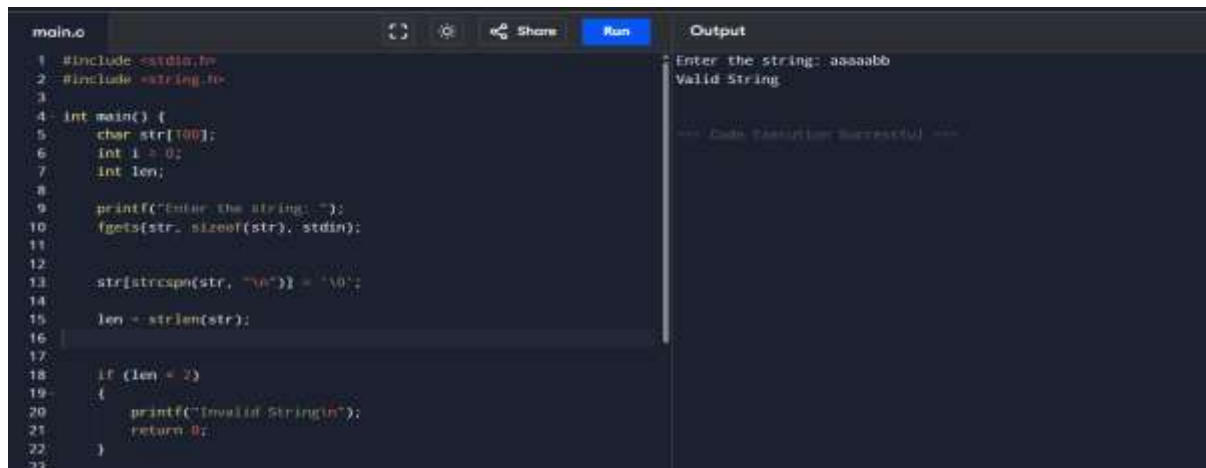
main.c  [Icons]  Share  Run  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len < 2)
19    {
20        printf("Invalid String\n");
21        return 0;
22    }
23
24    while (str[i] == 'a')
25    {

```

Enter the string: abb  
Valid String

--- Code Execution Successful ---

## Ex:9



```
main.c  Run  Share  Output
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i = 0;
7     int len;
8
9     printf("Enter the string: ");
10    fgets(str, sizeof(str), stdin);
11
12    str[strcspn(str, "\n")] = '\0';
13
14    len = strlen(str);
15
16
17
18    if (len > 2)
19    {
20        printf("Invalid String\n");
21        return 0;
22    }
23}
```

Enter the string: aaaaabb  
Valid String

--- Code Execution Successful ---