



WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++)
11        printf("%c\n", str[i]);
12
13    return 0;
14 }
15
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] ... | [] X

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile
tempCodeRunnerFile.c:8:5: warning: 'gets' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the
design of gets(3), it is highly recommended that you use fgets(3) instead. [-Wdeprecated-declarations]
    8 |     gets(str);
      |     ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/_stdio.h:260:1: note: 'gets' has been explicitly marked deprecated here
   260 | __deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of gets(3), it is highly
recommended that you use fgets(3) instead.")
      | ^
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:227:48: note: expanded from macro '__deprecated_msg'
   227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__( _msg)))
      |
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: CAT
C
A
T
○ rajatsingh@Rajats-MacBook-Air ~ %
```

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i, v=0, c=0;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++) {
11        char ch = str[i];
12        if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||
13           ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
14            v++;
15        else if((ch>='a' && ch<='z') || (ch>='A' && ch<='Z'))
16            c++;
17    }
18
19    printf("Vowels = %d\nConsonants = %d", v, c);
20    return 0;
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code + -

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
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  227 |     #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
      |                                         ^
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: Apple
Vowels = 2
Consonants = 3
○ rajatsingh@Rajats-MacBook-Air ~ %
```


Welcome

C C PROGRAMING PROJECT .c

#include <stdio.h> Untitled-1

1

#include <stdio.h>

2

3

int main() {

4

char str[100], rev[100];

5

int i, len = 0;

6

7

printf("Enter a string: ");

8

gets(str);

9

10

while(str[len] != '\0') // find length

11

len++;

12

13

for(i = 0; i < len; i++)

14

rev[i] = str[len - 1 - i];

15

16

rev[len] = '\0';

17

18

printf("Reversed: %s", rev);

19

return 0;

20

}

21

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Code

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cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile

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227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))

| ^

1 warning generated.

warning: this program uses gets(), which is unsafe.

Enter a string: hello

Reversed: olleh

rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[100];
5     int i, len = 0, flag = 1;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    while(str[len] != '\0')
11        len++;
12
13    for(i = 0; i < len/2; i++)
14        if(str[i] != str[len - 1 - i])
15            flag = 0;
16
17    if(flag)
18        printf("Palindrome");
19    else
20        printf("Not Palindrome");
21
22    return 0;
23 }
24
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | {} X

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
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 227 | #define __deprecated_msg(_msg) __attribute__((__deprecated__( _msg)))
     |
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: madam
Palindrome
rajatsingh@Rajats-MacBook-Air ~ %
```


WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[200];
5     int i, space=0, digit=0, special=0;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++) {
11        if(str[i] == ' ')
12            space++;
13        else if(str[i] >= '0' && str[i] <= '9')
14            digit++;
15        else if(!((str[i] >= 'a' && str[i] <= 'z') &&
16                !(str[i] >= 'A' && str[i] <= 'Z'))
17            special++;
18    }
19
20    printf("Spaces = %d\nDigits = %d\nSpecial Characters = %d",
21          space, digit, special);
22
23    return 0;
24 }
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code + - [] [] ... | [] x

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
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  227 | #define __deprecated_msg(msg) __attribute__((__deprecated__(msg)))
     ^
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: Hi 123 @#!
Spaces = 2
Digits = 3
Special Characters = 3
○ rajatsingh@Rajats-MacBook-Air ~ %
```

WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     char str[200];
5     int i;
6
7     printf("Enter a string: ");
8     gets(str);
9
10    for(i = 0; str[i] != '\0'; i++)
11        if(str[i] == ' ')
12            str[i] = '-';
13
14    printf("Output: %s", str);
15    return 0;
16 }
17
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
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227 | #define __deprecated_msg(msg) __attribute__((__deprecated__(msg)))
 | ^
1 warning generated.
warning: this program uses gets(), which is unsafe.
Enter a string: hello world program
Output: hello-world-program
rajatsingh@Rajats-MacBook-Air ~ %

