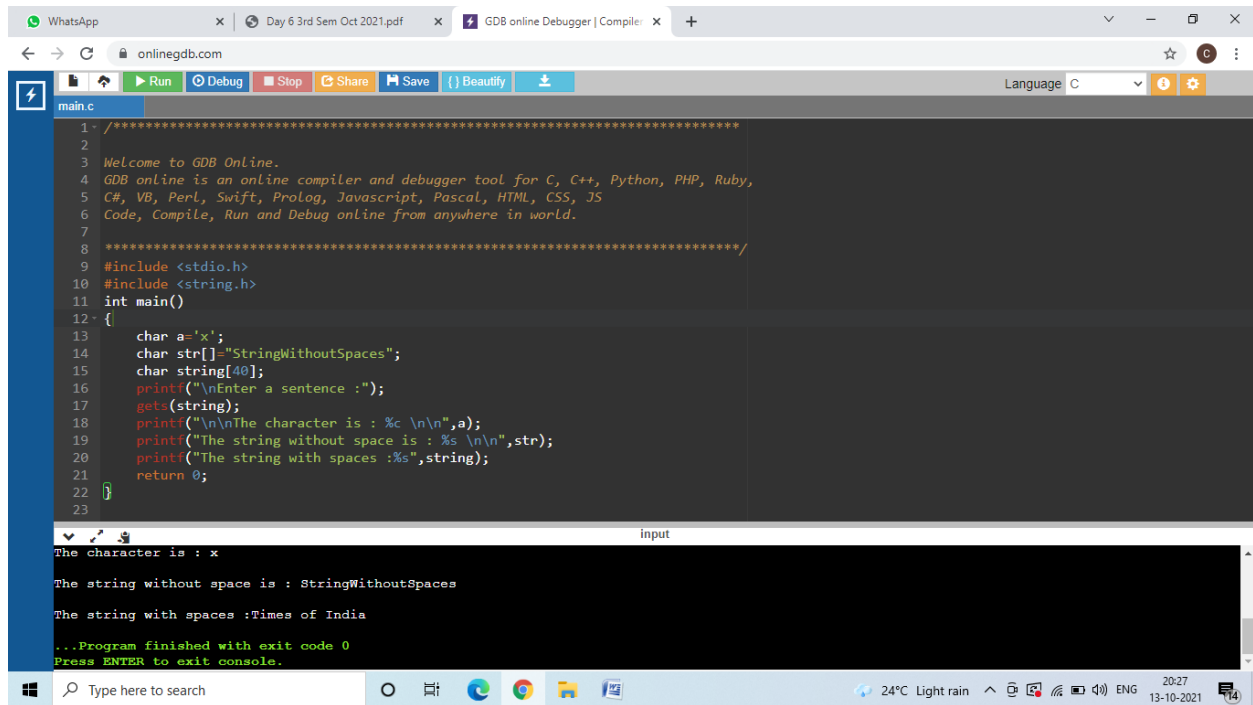


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JOY OF CODING DAY – 6

1.



The screenshot shows a web browser window with the URL `onlinegdb.com`. The browser has several tabs open, including 'WhatsApp', 'Day 6 3rd Sem Oct 2021.pdf', and 'GDB online Debugger | Compiler'. The online debugger interface is active, showing a C program in a file named `main.c`. The program includes `<stdio.h>` and `<string.h>`. It defines a `main` function that declares a character `a` and a string `str`. It prompts the user to enter a sentence, reads the input into `str`, and then prints the character `a`, the string without spaces, and the string with spaces. The output shows the character `x`, the string `StringWithoutSpaces`, and the string `Times of India`. The program finishes with exit code 0.

```
1- /******
2-
3- Welcome to GDB Online.
4- GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5- C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS
6- Code, Compile, Run and Debug online from anywhere in world.
7-
8- *****/
9- #include <stdio.h>
10- #include <string.h>
11- int main()
12- {
13-     char a='x';
14-     char str[]="StringWithoutSpaces";
15-     char string[40];
16-     printf("\nEnter a sentence :");
17-     gets(string);
18-     printf("\n\nThe character is : %c \n\n",a);
19-     printf("The string without space is : %s \n\n",str);
20-     printf("The string with spaces :%s",string);
21-     return 0;
22- }
23-
```

input

The character is : x

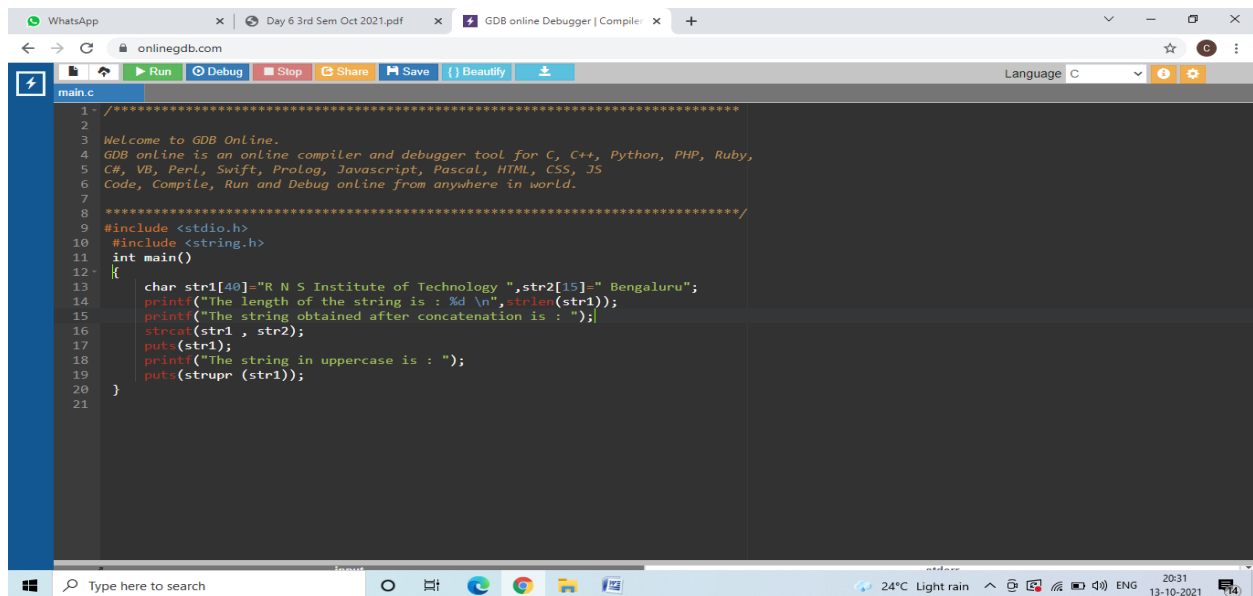
The string without space is : StringWithoutSpaces

The string with spaces :Times of India

...Program finished with exit code 0

Press ENTER to exit console.

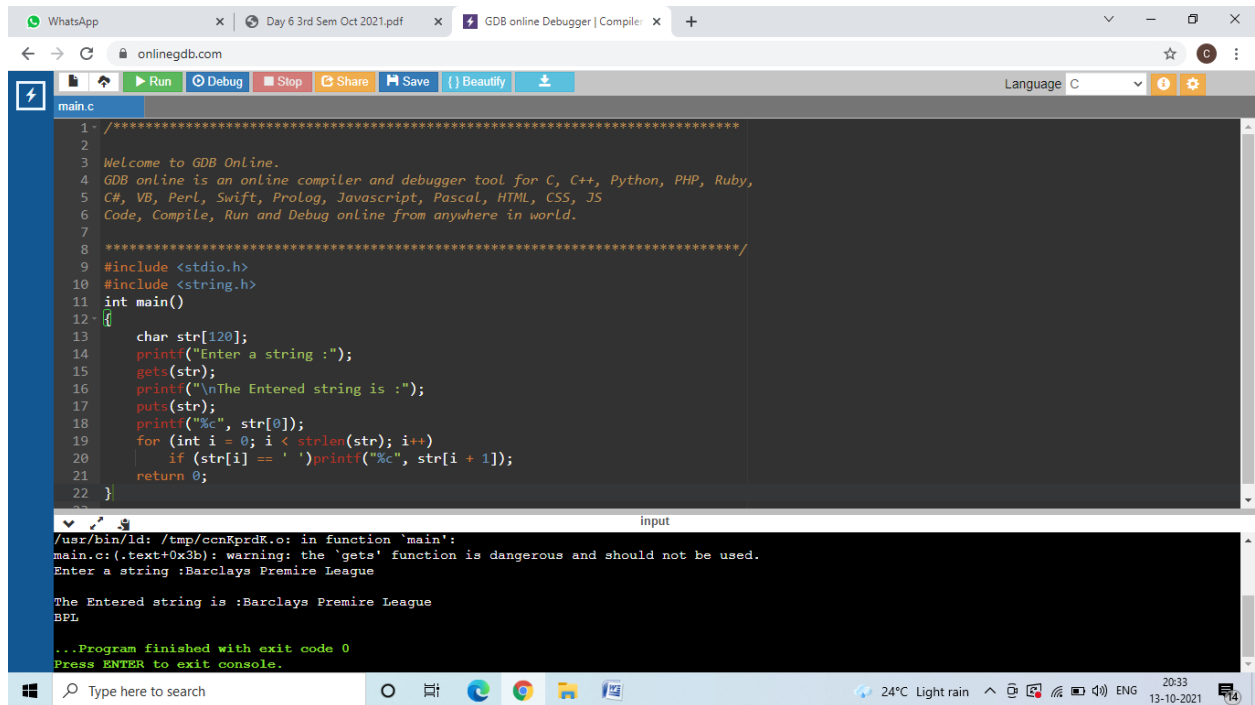
2.



The screenshot shows the same online debugger interface as the first image. The C program in `main.c` is different. It declares two strings, `str1` and `str2`, and prints their lengths. It then concatenates `str1` and `str2` using `strcat`, prints the concatenated string, and prints the concatenated string in uppercase using `strupr`. The output shows the length of `str1` as 24, the concatenated string as `R N S Institute of Technology Bengaluru`, and the concatenated string in uppercase as `R N S INSTITUTE OF TECHNOLOGY BENGALURU`.

```
1- /******
2-
3- Welcome to GDB Online.
4- GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5- C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS
6- Code, Compile, Run and Debug online from anywhere in world.
7-
8- *****/
9- #include <stdio.h>
10- #include <string.h>
11- int main()
12- {
13-     char str1[40]="R N S Institute of Technology ",str2[15]=" Bengaluru";
14-     printf("The length of the string is : %d \n",strlen(str1));
15-     printf("The string obtained after concatenation is : ");
16-     strcat(str1, str2);
17-     puts(str1);
18-     printf("The string in uppercase is : ");
19-     puts(strupr (str1));
20- }
21-
```

3.



The screenshot shows the GDB online Debugger interface. The code editor contains a C program that prompts the user to enter a string and then prints the string along with its length. The program uses `gets()` for input and a loop to count characters. The console output shows the user entering "Barclays Premire League" and the program outputting the string and its length (20).

```
1- ./*****
2
3 Welcome to GDB Online.
4 GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10 #include <string.h>
11 int main()
12 {
13     char str[120];
14     printf("Enter a string :");
15     gets(str);
16     printf("\nThe Entered string is :");
17     puts(str);
18     printf("%c", str[0]);
19     for (int i = 0; i < strlen(str); i++)
20         if (str[i] == ' ') printf("%c", str[i + 1]);
21     return 0;
22 }
```

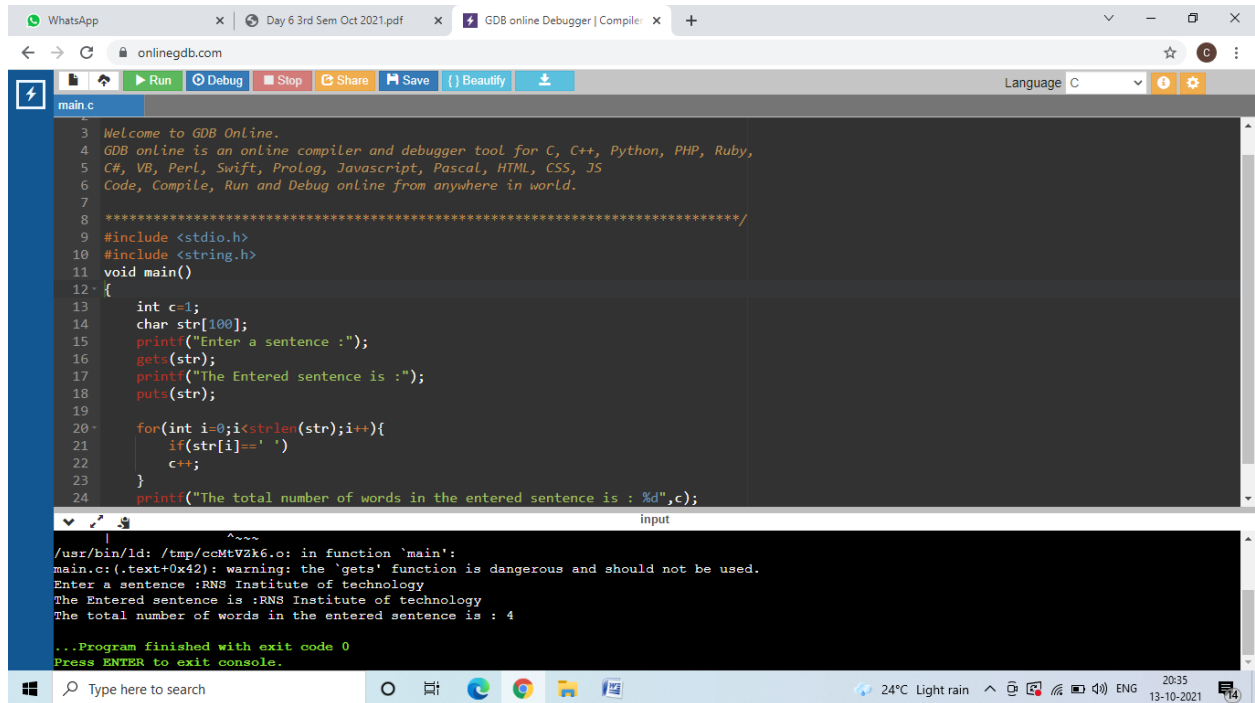
input

```
/usr/bin/ld: /tmp/ccnKprdK.o: in function 'main':
main.c:(.text+0x3b): warning: the 'gets' function is dangerous and should not be used.
Enter a string :Barclays Premire League

The Entered string is :Barclays Premire League
BBL

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

4.



The screenshot shows the GDB online Debugger interface. The code editor contains a C program that prompts the user to enter a sentence and then prints the sentence along with the total number of words. The program uses `gets()` for input and a loop to count words. The console output shows the user entering "RNS Institute of technology" and the program outputting the sentence and the total number of words (4).

```
3 Welcome to GDB Online.
4 GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10 #include <string.h>
11 void main()
12 {
13     int c=1;
14     char str[100];
15     printf("Enter a sentence :");
16     gets(str);
17     printf("The Entered sentence is :");
18     puts(str);
19
20     for(int i=0;i<strlen(str);i++){
21         if(str[i]!=' '){
22             c++;
23         }
24     }
25     printf("The total number of words in the entered sentence is : %d",c);
26 }
```

input

```
/usr/bin/ld: /tmp/ccMtV2k6.o: in function 'main':
main.c:(.text+0x42): warning: the 'gets' function is dangerous and should not be used.
Enter a sentence :RNS Institute of technology
The Entered sentence is :RNS Institute of technology
The total number of words in the entered sentence is : 4

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

5.

The screenshot shows a web browser window with the URL `onlinegdb.com`. The page has a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to C. The code editor displays a C program for checking palindromes. The program includes `<stdio.h>` and `<string.h>`, defines a `main` function, declares a character array `s` of size 1000, and reads a string from the user. It then uses a loop to compare characters from both ends of the string towards the center. If all corresponding characters match, it prints "string is palindrome"; otherwise, it prints "string is not palindrome".

```
1  //*****//
2
3  #include <stdio.h>
4  #include <string.h>
5  void main()
6  {
7      char s[1000];
8      int i,n,c=0;
9
10     printf("Enter the string : ");
11     gets(s);
12     n=strlen(s);
13
14     for(i=0;i<n/2;i++)
15     {
16         if(s[i]==s[n-i-1])
17             c++;
18     }
19     if(c==i)
20         printf("string is palindrome");
21     else
22         printf("string is not palindrome");
23 }
```

The console output shows the program's execution. It displays a warning from the linker about the deprecated `gets` function. The user enters the string "civic", and the program correctly outputs "string is palindrome". The console also shows the program finished with exit code 0 and a prompt to press ENTER to exit the console.

```
577 | extern char *gets (char *__s) __wur __attribute_deprecated__;
      | ^~~~~
/usr/bin/ld: /tmp/ccoc8NBZ.o: in function 'main':
main.c:(.text+0x44): warning: the `gets' function is dangerous and should not be used.
Enter the string : civic
string is palindrome
...Program finished with exit code 0
Press ENTER to exit console.
```