ASSIGNMENT-1

By

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Roll Number:2023A1R046

Semester:1st

CSE

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(Permanently Affiliated to the University of Jammu, Accredited by NAAC with "A" Grade)

Jammu, India

2023

Q1) Write a C program to count the number of words in a string.

```c
#include <stdio.h>

int main() {
    char str[100];
    int count = 0, i;

    printf("Enter a string: ");
    gets(str);

    for (i = 0; str[i] != '\0'; i++) {
        if (str[i] == ' ' || str[i] == '\t' || str[i] == '\n') {
            count++;
        }
    }

    printf("The number of words in the string is: %d\n", count + 1);

    return 0;
}
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

The number of words in the string is: 3
PS C:\Users\admin\c programs> cd "c:\Users\admin\c programs\" ; if ($?) { gcc assignment1.c -o assignment1 } ; if ($?) { .\assig
nm


PS C:\Users\admin\c programs> cd "c:\Users\admin\c programs\" ; if ($?) { gcc assignment1.c -o assignment1 } ; if ($?) { .\assig
nment1 }
Enter a string: 20 65 5 3 8 2 5
The number of words in the string is: 8
PS C:\Users\admin\c programs>
```

Q)2 Write the program for print all thee digit perfect number.

```c
C assignmernt2.c > ⦿ main()
1    #include <stdio.h>
2
3    int main() {
4        int num, sum;
5
6        printf("Three-Digit Perfect Numbers:\n");
7
8        for (num = 100; num <= 999; num++) {
9            sum = 0;
10
11           for (int i = 1; i <= num / 2; i++) {
12               if (num % i == 0) {
13                   sum += i;
14               }
15           }
16
17           if (sum == num) {
18               printf("%d\n", num);
19           }
20       }
21
22       return 0;
23   }
24
```

Output:

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                              + v  ...  ^  X

nment1 }                                                                                         >_ powershell
Enter a string: 20 65 5 3 8 2 5                                                                  >_ Code
The number of words in the string is: 8
PS C:\Users\admin\c programs> cd "c:\Users\admin\c programs"
PS C:\Users\admin\c programs> cd "c:\Users\admin\c programs\" ; if ($?) { gcc assignmernt2.c -o assignmernt2 } ; if ($?) { .\ass
ignmernt2 }
Three-Digit Perfect Numbers:                                    Activate Windows
496                                                             Go to Settings to activate Windows.
PS C:\Users\admin\c programs>

                                                        Ln 13, Col 26   Spaces: 4   UTF-8   CRLF   {} C   windows-gcc-x86
```