

## ASSIGNMENT COVER PAGE

Name of Student:	SAHIL ALTAF NAGOO
Batch:	JULY - 2023
Program:	BCA
Subject & Code:	Programming in C. OB CA 115
Semester:	1st
Learner ID:	2313020640

### NECESSARY INSTRUCTIONS

1. Cover Page must be filled in Capital Letters. All Fields of the Form are compulsory to be filled.
2. The assignment should be written / computer typed on A4 size paper and it should be neat and clearly readable.
3. The cover page should be stapled at the front of each and every assignment.
4. Incomplete Assignments will not be accepted.

→ What is the purpose of `scanf()` & `printf()` statement?  
Explain brief with example.

The Purpose of `scanf()` and `printf()` statements in C Programming is to Perform input & output operations. The `scanf()` function reads formatted input from the standard input device, such as a Keyboard, & stores the values in the Variables provided as arguments. The `printf()` function writes formatted output to the standard devices, such as screens, & displays the values of the Variables or expressions provided as arguments.

→ For Example → The following code snippet uses `scanf()` and `printf()` statements to take an integer input from the user & print it on the screen.

```
int main()
```

```
{  
    int num; // Declare an integer  
    variable.
```

```
    printf ("enter an integer");
```

```
    // Print a message to  
    prompt the user.
```

```
    scanf ("%d", &num);
```

```
    // Read an integer from  
    the user & store it in num.
```

```
    printf ("you entered %d\n", num);
```

```
    // Print the value of num
```

```
    return 0;
```

```
}
```

```
ENTER an integer:42 // The output of this  
YOU ENTERED :42 code will look  
Something like this.
```

in the scanf() statement, the format specifier %d indicates that the input is an integer, and the "s operator" get the address of the variable num, where the input value will be stored.

- in the printf() statement the format specifier %d indicates that the output is an integer & the value of the variable num is displayed.
- The scanf() & printf() functions can use different format specifiers for different types of data such as %c for characters, %s for strings, %f for float, %lf for doubles & %x for hexadecimal numbers.



⇒ Completed