

1. Hello World

Verilog Code:

```
File: HelloWorld.v
1  /*
2      K Rahul Reddy    17C0119
3      Sushruth V      17C0148
4      15 October 2018
5  */
6
7  module helloWorld;
8      integer i;
9      initial begin;
10         for(i = 0;i < 100;i = i + 1)begin
11             #1 $display("Hello World!\tTime : %3d\n",$time);
12         end
13     end
14 endmodule
```

Explanation:

A Verilog module for printing the necessary messages is created. Two of the most used functions, 'display', which displays a message onto the screen and 'time', which returns the time of execution, is being used here.

Output:

```
hackspot@hackspot-inspiron-3521:~/code/Verilog Assignment/A1$ vvp HelloWorld.vvp
Hello World!    Time :   1

Hello World!    Time :   2

Hello World!    Time :   3

Hello World!    Time :   4

Hello World!    Time :   5

Hello World!    Time :   6

Hello World!    Time :   7

Hello World!    Time :   8

Hello World!    Time :   9

Hello World!    Time :  10
```