1) Write a simple program for nested comments. what is the error & how we resolve it?



We should not write nested comments. '/*' at Line 6 starts commenting code and ignores '/* at line 8 as its looking for '*/' to end comment. So now comments will end at line 10. That's the reason we are getting error at line 13.

'/*': start comments and '*/': stop comments

If we should comment out code as below, which will print "3. Hello world".

```
[] G Run
                                                                      Output
 1 // Online C compiler to run C program online
                                                                     /tmp/ksQhr4QGmJ.o
 2 #include <stdio.h>
                                                                     3. Hello world
 4 * int main() {
 5 // Write C code here
6 · /*
7 printf("1. Hello world\n");
    printf("2. Hello world\n");
10
     printf("3. Hello world\n");
/*
 11 -
      printf("4. Hello world\n");
12
 13
14 return 0;
 15 }
```

2) A block of code is given to you and comment out all the code.

```
[] 6
                                                                         Run
                                                                                     Output
 main.c
 1 #include <stdio.h>
                                                                                    /tmp/Vfh0uwHxQ9.o
 2 int main()
 3 + {
4 - /*
 5 char ch1, ch2, ch3;
 6
         ch1 = 65;
 7 ch2 = 'b';
 8 ch3 = '3';
9     printf("ch1 = %c\n", ch1);
10     printf("ch2 = %c\n", ch2);
11     printf("ch3 = %c\n", ch3);
12     printf("ch1 = %d\n", ch1);
 14 printf("ch3 = %d\n", ch3);
15 */
 16 }
```

3) Execute the following code and note down the outputs.

```
[] G Run
  main.c
                                                                                                                        Output
  1 #include <stdio.h>
                                                                                                                      /tmp/Vfh0uwHxQ9.o
  2 int main()
                                                                                                                      ch1 = A
 3 + {
                                                                                                                      ch2 = b
  4
                                                                                                                      ch3 = 3
                                                                                                                      ch1 = 65
           char ch1, ch2, ch3;
  5
        ch1 = 65;
                                                                                                                      ch2 = 98
  6
ch1 = 65;
ch2 = 'b';
ch3 = '3';
printf("ch1 = %c\n", ch1);
printf("ch2 = %c\n", ch2);
printf("ch3 = %c\n", ch3);
printf("ch1 = %d\n", ch3);
printf("ch2 = %d\n", ch3);
printf("ch1 = %d\n", ch1);
printf("ch2 = %d\n", ch2);
                                                                                                                      ch3 = 51
             printf("ch3 = %d\n", ch3);
 14
15
 16 }
```