LECTURE 2 ASSIGNMENT

1. The code for question 1:

```
1
      #include <stdio.h>
 3
      #include <stdlib.h>
 4
 5
      int main(void)
 6
 7
 8
 9
            int number, number1, product, number2, reverse;
10
11
            printf ("Enter a two-digit number: ");
12
            scanf ("%d", &number); // where the value will be stored, in the variable "number"
13
14
           // formula in getting the reverse of a two-digit number number1 = number % 10; // first is getting the remainder of the given number
16
17
           product = number1 * 10; // multiply it to 10 to make it a tens
18
          number2 = number / 10; // next is to get the quotient by diving the given nnumber by ten
reverse = product + number2; // adding the product and the quotient to get the reverse of the number
19
20
21
22
23
24
25
           return 0:
26
```

2. The code for question 2:

```
1 // Prepocessor Directives
     #include <stdio.h>
 3
     #include <stdlib.h>
 4
     // where the program begins
 5
 6 int main (void)
 7 ₽{
 8
 9
         int number, number1, product, reverse;
10
11
12
         printf ("Enter a three-digit number: ");
         scanf ("%d", &number); // where the value will be stored, in the variable "number"
13
14
15
16
         number1 = number % 10; // first is getting the remainder of the given number
17
18
19
         number /= 10; // to remove the last number in the variable number
20
21
         product = number1 * 10 + number % 10; // multiply it to 10 and add to the remainder of the
22
         \frac{1}{3} * 10 = 30 + (12 % 10) = 30 + 2 = 32
23
         number /= 10; // to remove the last number in the variable number
24
25
         reverse = product * 10 + number % 10; // next is the value in the variable product will be
26
27
28
29
         printf ("Reverse number is: %d", reverse);
30
31
         return 0:
32
```

```
3.
a.)
 1
     #include <stdio.h>
  2
      #include <stdlib.h>
  3
  4
      int main (void)
  5
           int i, j, k;
  6
  7
           i = 3;
 8
 9
           j = 4;
           k = 5;
10
11
           printf("%d", i < j \mid \mid ++j < k);
12
13
           return 0;
14
15 }
The output in this code is 1.
b.)
 1 #include <stdio.h>
     #include <stdlib.h>
 2
 3
    int main(void)
 4
 5
   ₽{
 6
         int i, j, k;
 7
 8
         i = 7;
         j = 8;
 9
10
         k = 9;
11
         printf("%d", i - 7 \&\& j++ < k);
12
13
14
         return 0;
15 }
The output in this code is 0.
c.)
1 #include <stdio.h>
   #include <stdlib.h>
 3
 4 | int main (void)
 5
   ₽{
        int i, j, k;
 6
 7
        i = 7;
 8
 9
        j = 8;
10
        k = 9;
11
        printf("%d", (i = j) || (j == k));
12
13
14
        return 0;
15 }
The output in this code is 1.
```

```
d.)
1 #include <stdio.h>
2
    #include <stdlib.h>
3
4 int main (void)
5 目{
         int i, j, k;
6
7
         |i = j = k = 1;
8
9
         printf("%d", ++i || ++j && ++k);
printf("%d %d %d", i, j, k);
10
11
12
         return 0;
13
14 }
The output in this code is 12 1 1.
```