LAB 06 ASSIGNMENT

Task 03:

```
1 #include <stdio.h>
                                                                                                    ■ Select C:\Users\3TEE\Desktop\TASK 03.exe
                                                                                                    inter two numbers: 20
 ,
LCM of 20 and 7 is 140
GCD of the two numbers is 1
           int num1, num2, max;
  5
6
7
           printf("Enter two numbers: ");
scanf("%d %d", &num1, &num2);
                                                                                                     rocess exited after 10.25 seconds with return value 0 ress any key to continue . . . _
  8
           // FOR LCM
10
11
            max = (num1 > num2) ? num1 : num2;
12
13 🛱
            while (1) {
                if (max % num1 == 0 && max % num2 == 0) {
   printf("LCM of %d and %d is %d\n", num1, num2, max);
14 🛱
15
16
17
                      break;
18
19
20
21
            // FOR GCD:
22
23日24日
             while (num1 != num2) {
               if (num1 := num2) {
    num1 = num1 - num2;
25
26
27 🛱
                else {
28
                      num2 = num2 - num1;
29
30
31
32
33
34
            printf("GCD of the two numbers is %d\n", num1);
35
            return 0;
```

Task 04:

```
C:\Users\3TEE\Desktop\TASK 04.exe
    #include <stdio.h>
 1
                                                                                                2
    int main()
                                                   Enter number a:
3 🗏 {
                                                   Enter number b:
4 int a,b;
 5
    printf("Enter number a: \n");
                                                   Five, Six, Seven, Eight, Nine, Even, Odd,
 6
         scanf(" %d",&a);
    printf("Enter number b: \n");
                                                    Process exited after 3.326 seconds with return value 0
 8
         scanf(" %d",&b);
                                                    ress any key to continue . .
 9
10
         while(a<=b)
11 🖨
         if(a<=9)
12
13 🖨
         switch(a){
14 🖨
15
         case 0:
         printf("Zero, ");
16
17
         break;
18
         case 1:
19
         printf("One, ");
20
         break;
21
         case 2:
         printf("Two, ");
22
23
         break;
24
         case 3:
         printf("Three, ");
25
         break;
26
27
         case 4:
         printf("Four, ");
28
29
         break;
30
         case 5:
31
         printf("Five, ");
32
         break;
33
         case 6:
34
         printf("Six, ");
35
         break;
36
         case 7:
         printf("Seven, ");
37
38
         break;
```

```
39
         case 8:
40
         printf("Eight, ");
41
         break;
         case 9:
42
43
         printf("Nine, ");
44
         break;
45
         default:
46
         printf("Negative Value\n");
47
48
49
              if(a>9)
50
51 🖨
                   if(a%2==0)
52
                   printf("Even, ");
53
54
                    else printf("Odd, ");
55
56
57
         a++;
58
59
60
         return 0;
61
```

TASK 05:

```
TASK 03.c TASK 04.c TASK 05.c
1 #include <stdio.h>
                                                        C:\Users\3TEE\Desktop\TASK 05.exe
                                                                                                               2 ☐ int main() {
3
4
          int i = 0;
5
          for(i=0;i<7;i++)
6 🗦 {
7
         if(i%2==0)
8 🖨
9
             printf("%d\t%d\t%d\t%d",i,i,i,i);
                                                       Process exited after 0.02507 seconds with return value 0
10
                                                       Press any key to continue . . .
11
         else
         printf("\t%d\t%d",i,i);
12
13
14
          printf("\n",i);
   - }
15
16
         return 0;
17
```

TASK 06:

```
C:\Users\3TEE\Desktop\TASK 06.exe
TASK 06.c
                                                                     Total matches: 21
3 ☐ int main () {
                                                                     Pick 1, 2, 3, or 4 sticks: 3
 5
           int total = 21, comp;
                                                                     Matches left: 18
                                                                     Computer picked: 1 matches
Matches left: 17
 6
     printf("Total matches: %d", total);
 7
 8
 Pick 1, 2, 3, or 4 sticks: 2
10 int choice;
11 if (total==1) {
                                                                     Matches left: 15
                                                                     Computer picked: 4 matches
Matches left: 11
          printf("Oops! You lost!");
12
13
          break;
14
15
                                                                     Pick 1, 2, 3, or 4 sticks: 1
          printf("\nPick 1, 2, 3, or 4 sticks: ", choice);
16
          scanf("%d", &choice);
17
                                                                     Matches left: 10
                                                                     Computer picked: 4 matches
Matches left: 6
18
          if (choice>4 || choice<1) {</pre>
          printf("Invalid choice!");
19
20
          return 1;
21
          break; }
                                                                     Pick 1, 2, 3, or 4 sticks: 3
22
23
          total -= choice;
                                                                     Matches left: 3
                                                                     Computer picked: 2 matches
Matches left: 1
24
          printf("\nMatches left: %d", total);
25
          if (total == 5 || total == 10 || total == 15)
26
                                                                     Oops! You lost!
27
          comp = 4;
          else if (total == 4 || total == 9 || total == 14)
28
                                                                     Process exited after 5.644 seconds with return value 0
                                                                      ress any key to continue \dots
29
          comp = 3;
30
          else if (total == 3 || total == 8 || total == 13)
31
          comp = 2;
32
          else
33
          comp = 1;
34
35
          printf("\nComputer picked: %d matches",comp);
          total -= comp;
36
          printf("\nMatches left: %d\n\n", total);
37
38
39
40
     return 0;
```

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TASK 09:

```
TASK 03.c TASK 04.c TASK 05.c TASK 09.c
                                                                                      C:\Users\3TEE\Desktop\TASK 09.exe
1 #include <stdio.h>
                                                                                     The minimum number is 1
The maximum number is 21
 3 ☐ int main() {
 4
                                                                                    Process exited after 0.0223 seconds with return value 0
Press any key to continue . . . _
            int arr[]={4,1,6,8,10,21,8,9,2,6},min=22,max=0,i=0;
 6
7
            for(i=0;i<8;i++)</pre>
 8 🛱
 9
                 if(arr[i]<min)</pre>
10
                 min=arr[i];
11
                 if(arr[i]>max)
12
                 max=arr[i];
13
           printf("The minimum number is %d", min);
printf("\nThe maximum number is %d", max);
14
15
16
            return 0;
```