



UNITED INTERNATIONAL UNIVERSITY (UIU)
Dept. Of Electrical & Electronic Engineering (EEE)
Exam: Final, Trimester: Summer, Year: 2021
Course: EEE 2402 (Sec –A), Title: Structured Programming Lab
Marks: 30, Time: 40 minutes

Name:

ID:

There are five questions. Answer 1, 3 and 5 if your ID is even. Answer 2, 4 and 5 if your ID is odd.

1. Write a program using a recursive function to find the gcd (greatest common divisor) of two given numbers. [10]
2. Write a program using a recursive function to find the lcm (lowest common multiple) of two given numbers. [10]
3. Write a program to print the elements of each row sequentially. For example, if the matrix is [10]

```
1  2  3
4  5  6
7  8  9
```

The output should be

```
1 2 3 4 5 6 7 8 9
```

4. Write a program to print the elements of each column sequentially. For example, if the matrix is [10]

```
1  2  3
4  5  6
7  8  9
```

The output should be

```
1 4 7 2 5 8 3 6 9
```

5. There are some errors in the following code. Correct those errors, write the C program and display the output. The correct output will be [10]

```
52    2021    3
```

```
# include <stdio.h>
void myfunc( *ptr1 , int *ptr2);
```

```
int main(void)
int x=2021, y=6, z=3, w=52
myfunc (&x, &y);
if {x < z}
myfunc (&z, &x);
myfunc (&x, &w);
```

```
printf("%d\t%d\t%d\n", x, y, z));  
return 0;  
}
```

```
void myfunc (int *ptr1 , int *ptr2) {  
int *temp  
*temp = ptr2;  
*ptr2 = *ptr1  
ptr1 = *temp;  
}
```