

Lab 7

Conditional Statements (Cont.) And Iterations in C

Marks: 5

Question 01:

Write a program to find the largest factor of a user given number. (apart from the number itself).

```
Enter a positive integer to find its largest factor: 12
The largest factor of 12 is: 6
```

Question 02:

Calculate the Product of two numbers WITHOUT using the * operator

Question 03:

Draw the following pattern of divisor, it should print a pattern of asterisks where the i th row has an asterisk in each position corresponding to divisors of i (the same holds true for the columns).

```
enter N value
10
* * * * * 1
* * * * * 2
* * * * * 3
* * * * * 4
* * * * * 5
* * * * * 6
* * * * * 7
* * * * * 8
* * * * * 9
* * * * * 10
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```

Question 04:

Write a program to determine the smallest integer N such that $N^3 - 2N^2 > 100000$

Question 05:

Write a program that accept a dialing code and return the corresponding country and city name.

```
Enter the dialing code: 92213
Country: Pakistan
City: Karachi
```