Fast**FastNational University of Computer and Emerging Sciences, Karachi  
Fall – 2021, FAST School of Computing  
Mid Term Examination  
9thNovember 2021, 10:30am – 12:30pm**

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| **Course Code:CL1002** | **Course Name: Programming Fundamentals** | |
| **Instructor Name : Hamza Ahmed** | | |
| **Student Roll No:** | | **Section No:** |

Instructions:

* Read each question completely before answering it. In case of any ambiguity, you may make assumption. But your assumption should not contradict any statement in the question paper.
* Return the question paper.
* Create a folder in D-Drive of your student-id e.g. **“Folder Name should be K20-1292 and save all your .C file there.**
* The type of submission is an Electronic
* You are not allowed use of cell phone/smart watch and USB in exam lab.
* Cheating in any case will lead to **F-GRADE** directly as per university rules.

**Time**: 90 min. **Max Marks 40 points**

**Question # 01: 20points**Write a program that will perform Addition, Division and Multiplication of three numbers using the following

method:

· Input three numbers such as n1, n2 and n3.

· Add the smallest number with the second largest number.

· Now check the largest of the two numbers and perform the following operations.

· Multiply the Smaller number by 2.

· Divide the Largest number by 2.

· Declare a variable total. Add to a total of only those multiples of the Smaller number which

correspond to an even quotient of the larger number.

FOR EXAMPLE:

SAMPLE INPUT:

50 55 32

SAMPLE OUTPUT:

Now two numbers are

55,82

55 | 82

110 | 41

220 | 20

440 | 10

880 | 5

1760 | 2

3520 | 1

Then the total is 55+220+440+1760 = 2475

**Question # 02: 10 points**

Write a program that take digits as an input and coverts the digit in alphabetic in reverse order.

e.g 12  
output: two one

1234  
Output: four three two one

**Question 03: Use switch Statements 10 points**

The Last Stop Boutique is having a five-day sale. Each day, starting on Monday, the price will drop 10% of the previous day’s price. For example, if the original price of a product is $20.00, the sale price on Monday would be $18.00 (10% less than the original price). On Tuesday the sale price would be $16.20 (10% less than Monday). On Wednesday the sale price would be $14.58; on Thursday the sale price would be $13.12; and on Friday the sale price would be $11.81. Develop a solution that will calculate the price of an item for each of the five days, given the original price. Test the solution for an item costing $10.00.

Monday would be representing as 1

Tuesday would be representing as 2

Wednesday would be representing as 3

Thursday would be representing as 4

Friday would be representing as 5

**Sample output:**

