

FEST

National University of Computer and Emerging Sciences, Karachi Fall – 2021, FAST School of Computing Mid Term Examination 9th November 2021, 11:30am – 1:00pm

Course Code:CL1002	Course Name: Programming Fundamentals
Instructor Name : Hamza Ah	med
Student Roll No: 21 K 45 88	Section No: D

Instructions:

- Read each question completely before answering it. In case of any ambiguity, you may make assumptions. 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.
- . 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

3520 | 1

Question # 02:

10 points

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

e.g 12

output: two one

1234

Output: four three two one

12

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:

q - 9 × 100 q - 9 × 100 q - 0.9 q - 17

```
please enter the original Price
25.5
please enter the day
4
Thursday 16.730551
Process exited after 12.3 seconds with return value 8
Press any key to continue . . .
```