Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa Campus **Computer Programming (CS F111)**

Second Semester 2013-2014 **Lab-5 (C Programming)**

Question #1

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A school conducts a 100 mark Scholarship exam for its student:
Grade:
     Grade A:Marks>=75
     Grade B:75>Marks>=60
     Grade C:60>Marks>=50
     Grade D:50>Marks>=40
     Grade E:Marks<40
Scholarships: (% of fees)
     80%:Marks>=95
     50%:95>Marks>=80
     10%:Marks<80
Promotion:
     Yes:Grade is atleast D
     No:Grade E
Assume the fees for the present year is 100000
If a student's grade is E or below then he is not granted any
scholarship.
Take a student's marks as input and display his Grade,
Scholarship granted(%), whether he is allowed promotion and net
fees payable.
Sample Input:
Enter marks
77
Sample Output:
Grade: A, Scholarship: 10.000000 percent, Promotion: Y
Fees payable: 90000.000000
Sample Input:
Enter marks
-10
Sample Output:
Invalid Marks
Sample Input:
Enter marks
50
Sample Output:
Grade: C, Scholarship: 10.000000 percent, Promotion: Y
Fees payable: 90000.000000
```

Ouestion #2

Write a C program to swap [interchange] values of two variables with or without a temporary variable. The swap can be swapping two floating point variables or two character variable. Sample Input: Select Data Type: 1. For Floating point and 2 for Character Input two numbers: 14.27 18.46 Select Your option: A. For without temporary variable and B. For with temporary variable В Output: Swap using temporary variable, Before swapping: X = 14.27 Y = 18.46After swapping: X = 18.46 Y = 14.27Sample Input: Select Data Type: 1. For Floating point and 2 for Character Input two characters: Sd Select Your option: A. For without temporary variable and B. For with temporary variable Α Output: Swap without temporary variable, Before swapping: X = S Y = dAfter swapping: X = d Y = SSample Input: Select Data Type: 1. For Floating point and 2 for Character Output: Invalid Input Sample Input: Select Data Type: 1. For Floating point and 2 for Character Input two characters: 9h Select Your option: A. For without temporary variable and B. For with temporary variable

Output:

Invalid Option