COMSATS University Islamabad, Abbottabad Campus

**Department of Computer Science**

# LAB #1

**Object Oriented Programming Class: BSE- 3 A & B**

Q1. Write a program in that input a three digits number and display it in reverse order. For example the number is 789 and output will be 987.

Q2. Write a program that reads the time in seconds and calculates hours, minutes, and seconds of a given time in the following format:

# H: M: S 2: 35: 40

Q5. Write a program that reads the time in hours and find out number of weeks, days and remaining hours the following format:

# W: D: H`

**1: 3: 15**

Q5. Suppose that when a ball is dropped, it bounces from the floor to a height one-half of its previous height. Assume that the variable ***height*** contains the height of the ball in meters and that the user has input its initial value. Write a program that simulates the bouncing ball. You are required to calculate and display the height of the ball at each bounce. Stop the program when the height is less than 0.1 meters.

Q6. Develop a program which calculates 7% annual interest of a deposited amount from years 1981 to 1990. The outcome will be like below:

**Year Amount**

|  |  |  |
| --- | --- | --- |
| 1981 | 10000 |  |
| 1982 | 10700 |  |
| 1983 | 11449 | and so on |

Q7. Write a function AddMinMax that takes in a 3 values integer parameter min,max and nextnum and return the product from min to max increasing min by nextnum up to including max. For example AddMinMax(2,10,3) returns 15 (2+5+8).

Q8. Write a program that inputs a number and check whether it is palindrome or not. A palindrome is a number that reads the same backwards such as 525 and 53235 and so on.

\Q9. Draw the following shapes using nested loops

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