**Structured Programming Language Sessional**

**Roll No\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course Code: CSE 106**

**Lab-6 Evaluation**

**Problem 1: Program to print double reverse pyramid as shown below**.

**01234\*\*\*\*\***

**0123 \*\*\*\***

**012 \*\*\***

**01 \*\***

**0 \***

**\* A**

**\*\* BC**

**\*\*\* DEF**

**\*\*\* GHIJ**

**\*\*\*\*\*KLMNO**

**Problem 2 : Write a function to calculate power of a number. It will have the following prototype.**

**int power(int base, int p); //power(3,2) will return 9**

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**Problem 2 : Write a function to calculate power of a number. It will have the following prototype.**

**int power(int base, int p); //power(3,2) will return 9**

**Problem 3 : Write a function that will print all the non-primes less or equal to n when n is provided as parameter. It will have the following prototype.**

**void printNonPrime(int n);**

**Problem 4 : Write a function that will take an integer n as input, and will return the reverse of the number. For n = 1234, the return value will be 4321**

**Problem 5: Write a C function to Count Number of Digits in an Integer.**

**Problem 6 : Write a C function to convert Decimal to Binary number system**

**Problem 7 : write a c function that will return the single grade char when percentage is given**

**A = 100 .. 80**

**B = 79 .. 60**

**C = 59 .. 40**

**F = 39 .. 0**

**It will have the following function prototype:**

**char getGrade(int percentage)**

**Problem 8 : Write a C function that will check if a number n is in between two numbers a and b. It will return 1 if it is, 0 otherwise. It will have the following function prototype:**

**int isBetween(int a, int b, int n);**

**Problem 9 : Program to find diameter, circumference and area using functions**

### Problem 10. Program to find maximum and minimum of two numbers

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**Problem 11 : program to check prime, armstrong and perfect numbers**

### Problem 12 : Program to print perfect numbers using functions