National College of Computer Studies (NCCS)

BIM First Semester: C programming lab sheet 7

1. WAP to read a number 'n' & calculate its cube using function:

    a. No argument but return type

    b. Argument and return type

2. WAP that calls a function called getArea(). This function is responsible for reading the length & breadth & print area of rectangle.

3. WAP that reads two numbers from user and call function add() for addition, subtract() for subtraction, product() for multiplication and division() for division.

4. WAP that calls a function named interest(). This function takes the values of principal, number of years and rate of interest as an argument & returns the calculated interest. 5. WAP to read a number & print its square using function.

6. WAP to read 3 numbers and print the largest number using function with argument and return type.

7. WAP to read a character and convert it into uppercase if it is in lowercase and vice-versa using function with argument and return type.

8. WAP that read a number 'n' from user & print your name 'n' times using function with no return type and argument.

9. WAP that calls a function whose name is mul() that takes one argument and print the multiplication table of inputted number.

10. WAP that calls a function whose name is reverse() that takes number as argument and returns the number in reverse order.

11. WAP that calls a function whose name is palindrome() that takes number as argument and check whether it is palindrome or not.

12. WAP that use a function called factorial(). This function takes a number as an argument & returns the factorial value of the inputted number.

13. WAP that use a function called prime(). This function takes a number as an argument and returns 0, if the given argument is prime otherwise 1.

14. WAP that use a function called Armstrong(). This function takes a number as a input and check whether it is Armstrong or not.

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PART – II

RECURSION

1. WAP to print your name 10 times using recursive function with static and non static variable.

2. WAP to calculate the factorial of a given number by using recursive function. 3. WAP to calculate the nth element of the Fib sequence by using recursive function. 4. WAP to find first 10 element of fib sequence by using recursive function. 5. WAP to read a line of text and print into reverse order by using recursive function.

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