

**Programming Fundamentals**

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| Lab 04 | |
| **Topic** | Functions |
| **Objective** | * Writing code using of user defined functions |

**SECTION-A**

1. Write a C++ program and define a function named “printTable” which takes an integer value as parameter and print table of that value. Call this user defined function in main function and pass an integer value to this function entered by user at run time.

## Sample output:

|  |
| --- |
| Please enter a value:  5  Output:  5 x 1= 5  5x 2 =10  5 x 3 = 15  .  .  .  5 x 10 = 50 |

1. Write a C++ program where you have to define a function with name “checkPrime” which takes an integer value as parameter and returns 0 if value is not a prime numer otherwise 1 if passed value is a prime no.

**Note**: You have to read number from user on runtime.

## Sample output:

|  |
| --- |
| Enter a value : 25  **Ouput: 0** |

1. Write a C++ program where you have to define a function with name “calculatPower” which takes two integer values as parameters and returns A^n (A raise to power n)where A is first parameter and n is 2nd parameter.

## Sample output:

|  |
| --- |
| Enter a value: 5  Enter power: 3  **Answer is: 125** |

1. Write a C++ program where you have to define a function with name “printASCII” which takes a character as parameter and returns its ASCII vlaue. Print the returned value in main function.

**Note**: You have to read character value from user at runtime.

## Sample Output:

|  |
| --- |
| Please enter a character: B  **ASCII vlaue is: 66** |

1. Write a C++ program with a function named “calculateBill” which takes 3 paramters; *previous month’s units, current month’s units*, and *price per unit*. Function calculates the bill with 10% subsidy and returns payable bill.

## Sample output:

|  |
| --- |
| Enter previous month’s units:  2548  Enter Current months units:  2698  Enter unit price: 15.42  **Output:**  Total units consumed: 150  Total bill: 2313  Payable bill: 2081.7 |