



**General Sir John Kotelawala Defence University**  
**Department of Computer Science**  
**CS 1012 –Fundamentals of Programming**  
**Work Sheet – Functions**

**Instructions:**

- **Write the answers in a word document and upload it to the google classroom on or before 10/5/2022 12.00 midnight.**
- **Late submissions are not allowed.**
- **Please write your registration number and name with initials in the top left corner of your document.**
- **Please rename your document with your registration number and upload it to the google classroom.**

1. Write a program to print the circumference and area of a circle of radius entered by user by defining your own function.
2. Define two functions to print the maximum and the minimum number respectively among three numbers entered by user.
3. Define a program to find out whether a given number is even or odd.
4. A person is eligible to vote if his/her age is greater than or equal to 18. Define a function to find out if he/she is eligible to vote.
5. Define a function to find out if number is prime or not.
6. Write a program which will ask the user to enter his/her marks (out of 100). Define a function that will display grades according to the marks entered as below:

Marks	Grade
91-100	AA
81-90	AB
71-80	BB
61-70	BC
51-60	CD
41-50	DD
<=40	Fail

7. Write a program to print the factorial of a number by defining a function named 'Factorial'.

Factorial of any number  $n$  is represented by  $n!$  and is equal to  $1*2*3*...*(n-1)*n$ . E.g.-

$$4! = 1*2*3*4 = 24$$

$$3! = 3*2*1 = 6$$

$$2! = 2*1 = 2$$

Also,

$$1! = 1$$

$$0! = 1$$

8. Write a C++ Program for Addition Subtraction Multiplication using function. You should take the numbers from the user and should do the Addition, Subtraction and Multiplication using function.
9. Write a C++ program to check number is palindrome or not using Function. Palindrome means a word, phrase, or sequence that reads the same backwards as forwards, As an example the number 1881 is a palindrome number.