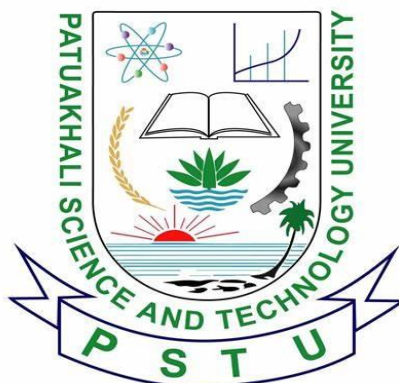


# PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY



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Course Code: CCE-112

**SUBMITTED TO:**

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# Assignment 2

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## **Program**

Program is a series of coded software instructions to control the operator of a computer or other machine name.

## **Coding**

Coding is the process of assigning a code to something for classification or identification. It also can be described as the process or activity of writing computer program.

## **Programmer**

Programmer is a person who writes computer program. Or else a programmer is someone who writes/creates computer software or applications by providing a specific programming language to the computer.

## **Programming language**

A programming language is a system of notation for writing computer programs. Programming languages are text-based formal language. But they may also be graphical. They are a kind of computer language.

## **The 5 basic coding concepts**

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### **1.Run:**

Running a program means to execute it or to make it performs its specialized task. this can be done by clicking on a program's icon, typing a command into a terminal or command prompt, or by running the program within an integrated development environment.

## **2.Algorithm:**

An algorithm is a set of instructions for solving a problem or accomplishing a specific task. It is essentially a step by step process that outlines the actions that need to be taken in order to achieve a particular goal.

## **3.Script:**

A script is a program that is written in a scripting language such as Python, Javascript, or Ruby. Scripts are typically shorter and less complex than full-fledged programs, and they are often used for automating repetitive tasks or for performing simple calculation.

## **4.Function:**

A function is a block of code that performs a specific task or set of tasks. Functions can be used to organize code and make it more modular, allowing you to reuse code in multiple places throughout your program.

## **5.Operators:**

Operators are the symbols or keywords used in programming to perform specific operations on data. For example, the plus sign (+) is an operator used to add two numbers together, and the equal sign (=) is an assignment operator used to assign a value to a variable.

# **Scratch Programming**

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## **Definition:**

Scratch programming is a visual programming language developed by the lifelong kindergarten group at the Massachusetts institute of technology (MIT) Media lab.

## **What Scratch Do:**

Scratch allows users to create interactive stories, animations, games, and other creative projects by dragging and dropping blocks of code instead of typing text-based code. Users can create code blocks to control the movements and actions of characters, and can add sounds and graphics to create an interactive experience. Scratch also includes a large online community where users can share their projects and collaborate with others on programming projects.