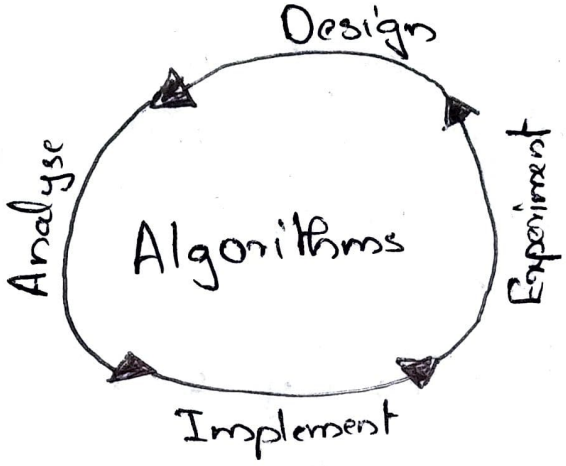
1. Draw the figure and explain how we are following the algorithms steps.

Ans.



Every algorithm needs a process in order to be created and utilized. Described below are the four stages of algorithm analysis and design.

i) Design: Algorithm design is the branch of discrete mathematics and computer science that deals with the research, development and implementation of sequential and asynchronous algorithms. An algorithm is simply a sequence of instructure a recipe is an algorithm and so is a list of driving instruction.

ii) Analyse: Is an important part of a broader computational complexity theory, which provides theoretical estimate for the resources needed by any algorithm which solves a given computational problem. These estimates provide an insight

into reasonable directions of search for efficient algorithms.

iii) Implement : Is a realization of a technical specification or algorithm as a program, software component or other computer systems through computer programming and deployment. Many implementation may exist for a given specification or standard.

iv) Experiment :- Analysis of algorithm describes not a specific algorithmic problem, but rather an approach in algorithm design and analysis. A researcher in experimental analysis selects performance indicators most appropriate to the scale and scope of the specific research question at hand.

2. How to find prime number in mathematical way from 1 to 10.

Ans. Every prime number can be written in the form of $6n+1$ or $6n-1$ (except the multiples of prime number ie. 2, 3, 5, 7, 11) where n is a natural number.