**To overcome the problem of writing code efficiently the {NAME} is designed. The {NAME} uses deep learning approach known as Natural Language Processing . Which is used to learn and generate the code snippets from natural language description . The model will enable a developer to write efficiently just by providing the description in natural language(English). This paper describes the different techniques adopted in this era of AI. Additionally , it includes the objective , the scope of advancement and the approach for implementation for reducing developers efforts. {NAME} is a machine learning model that provide source code for given problem statements by using self-attention based transformer architecture. Although we didn’t aim to achieve 100% accuracy because the natural language is very ambiguous and has very rich set of vocabulary. One such approach can give rise new era of development. We are proposing a**

**potential research direction of creating a model by combining various inputs.**

Objective:- Artificial read and learn system is developed many advanced technologies having an interest in automation we are planning to develop a system for smart coding with following objective in our mind:

1. To reduce human efforts faced by developers while programming.
2. To provide assistance to developers for code Generation.
3. To keep the Software development Feasible.

Methodology :

1. The model consisted of two important sections encoder and decoder which is used for sequence to sequence modeling.

2. Word embedding: - The text provided by user is passed through tokenize which embeds the words to vectors and also we’ll provide positional encoding.

44.Add &Norm :- Normalization of data is done to obtain a mean close to zero. It generally boosts learning and speeds up faster convergence.

43. Multi head attention : - It calculates the attention weights for each word in a given sequence.

3. Encoding :- The tokens are sent to multi-head attention layer in encoder for encoding.

Its uses layer normalization and fully connected feed forward network which helps