## **Computer Vision Task**

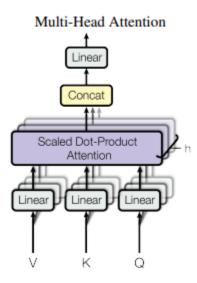
## Preprocessing the Data:

The training images paths and text prompts were captured from the JSON file. Rather than training our model on several instances,I have used **Multi head attention** mechanism to encode multiple relationships and nuances for each word.

## Pre training:

It consists of three components:

- 1. Query: What we are looking for?
- 2. Key: What we have?
- 3. Value: What we want to output?



To allow the parallel computation of multiple heads, transposition methods are used

$$\operatorname{Attention}(Q,K,V) = \operatorname{softmax}(\frac{QK^T}{\sqrt{d_k}})V$$

The pretrained weights are imported and loaded.

The phrase cut images were transformed for visualization..

Again I made use of Hugging face library for most part of my code.