**Convert Binary to Decimal**

We have learnt how to do binary to decimal conversion. We are going to implement the same code using Scratch

**Here are the steps for converting a binaru number to a decimal number**

**Step 1**: Add the *when () clicked* block from the Event under the code tab

**Step 2**: Click Sensing under the code tab and drag the *say ()..* and *wait* block

**Step 3**: Click on Variables and select *Make a Variable*. Name the first variable i. Click on Make a Variable again and name it result and click OK

**Step 4**: Select the set () to () block. Change the variable name to i and set i to 1.

Step 5: Add another *set () to ()* block. Edit the variable to result and set it to 0

**Step 6**: Click on Control under the code tab and select *repeat* block

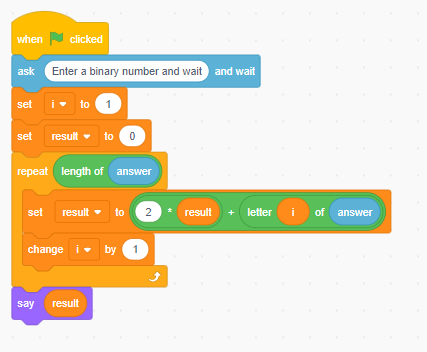
**Step 7**: In front of repeat text, add a *length of ()* block from the operators. Select answer block from Sensing and set the length of to answer.

**Step 8**: Click on Variables and select the *set ()* block. Configure the set block as shown 

**Step 9**: Select *change() by ().* Set variable to I and change by 1.

**Step10:** Click Looks from the code tab and select say () block. Add the result in the say block.

Your code will look as the one below.



**Converting decimal numbers to binary numbers**

Every day, we use decimal numbers. You have already been introduced to manually converting decimal numbers to binary numbers. Here is the Scratch script for converting decimal numbers to binary numbers. Take note that in this script you just need to create three variables, which are:

* decimal number
* binary number
* remainder

Graphical user interface, text, application, chat or text message

Description automatically generated