**1.Write a program to find out the prime numbers**

In this program, I have got an input as prime\_num and run a for loop from range 2 to the entered number and in the loop i have inserted an if statement which checks the reminder is zero hence i have printed it is not a prime number. In the else statement I have also entered a print statement of a prime number.

**2.write a program to create the equation (a+b+c) \* (a-b-c) \* ab + a^2 + b ^2 + (abc)^3**

I have got an input in a single line using map & split function and inserted in the pre-defined equation and printed as output.

**3. urlist = ['wood','knife','axe'] , mylist = ['tree', 'apple', 'mango', 'melon'] – combine two lists**

I have combined those lists using the arithmetic function(+) and printed the output.

**4.write a program for natural number based on user input**

I have run a for loop that prints the natural numbers which starts from 1 to up-to the user’s input and prints them one by one.

**5.write class and function for the equation sqrt(x1-x2) ^ 2 + sqrt( y1 – y2 ) ^2 using try except handling**

I have created a function which has the predefined equation in it and returns their value when the input is given and I have totally inserted a try except method which try the function and in case of throwing an error, except helps to print the predefined statement “enter a integer”.

**6. Name = “Guvi python” - write a program to get “python” word from the string**

I have done this by separating the line by using split function and put them in a list. Using slicing I have printed the second word of the line.

**7.Using class and function - Write a program for palindrome Ex. Madam**

I have created a function called palindrome and got an input in a list which helps me to store the word in the list by letters. With the help of index and slicing I have created another list and using the if statement I have checked whether it is a palindrome or not.

**8.using file handling – write a text file in ur system with “hello world”**

I have used “a” append mode to open a file in the given path and using the write function I have rewritten the file as given input and closed the file using close function. Then again I have opened the file in r mode which is reading mode with the help of that. I have printed them in output.

**9.create option button using tkinter GUI in python**

I have first installed a package called X Virtual Frame Buffer. And imported os to create

Virtual display and using thinker i have created a button.

**10.Keep only numbers from the following string x = “ 89e9jcd^o38829@3%3,/mkl$w1”**

Using is.digit i have ran a loop which takes the output in a list and also append them in a new list if the given condition is satisfied and i have printed them in a output using print function.