Problem 1:

Explanation: In this problem I am getting start, end values for range from the user then printing the prime numbers message. Using nested for loop I am iterating each value from range.

I have used the condition if the value is divided by any other numbers except itself ,1 then it will not be a prime number

If The prime value is equal 0 that tells the range value “i” is a prime number then the value will be printed

Problem 2:

Explanation: In this problem I am getting the user input for a, b, c and I have put the equation with arithmetic operator then I have used the equation inside the print() to display result .

Problem 3:

Explanation: In this problem I have combined two list using “+” operator and I have printed it for result.

Problem 4:

Explanation: In this problem I have used the input () with int () to get the integer value and I have used the

if-else shorthand to make the condition if the value is positive means it’s a natural number otherwise print the value is not a natural numbers .

Problem 5:

Explanation: In this problem , I have created the class called sqrt and inside the class I have made one method named as square\_root. The function will print the equation (sqrt(x1-x2) ^ 2 + sqrt( y1 – y2 ) ^2)that has been given by project team .

I have created the object for class sqrt before that I am getting input from the user for to **pass as arguments** for the **square\_root()** then It will print the result once it has passed to the square\_root() and performed the equation.

All the class and objects codes are used inside the try block, if any error occurs it will shows in the except block using print().

Problem 6:

Explanation: In this problem, I have used the string slicing to print the python word as the output.

Problem 7:

Explanation: I have created the class called palindrome, inside it I have created the function named as checker. It will check whether the given value is a palindrome or not

I have used the string reverse trick that is (value[::-1]) to check the value is palindrome or not .

If the value (forward string) == compare (backward string) is a palindrome then it will print the result.

Problem 8:

Explanation: In this problem I have created one text file using open() and “x” mode inside it .

and I have written text “hello world” inside it using write function and I have closed the file using close().

Problem 9:

Explanation: Using tkinter Tk() I have created the tkinter object named as **window** and I have used the **label()** to create the label for to show the question then I have used list to **store list of values** for option and using for loop I have created the button with the use of Button() .

This process will perform inside the main loop.

Problem 10:

Explanation: To get the numbers from the string I have used the condition, if any string is equal 0 – 9 then it will append to the empty list . this process will perform inside the for loop.

At last the join method was used inside the print() to join all the list elements together to show as a single string. If want we can use int() to show the numbers in integer type.