In this project of research , We will study the one dimensional heat Flow and solving it by using " Recursive Method" of Adomain decomposition method which in most times gives the exact solution of the equation . In this text , we will discuss two chapters , which in chapter one we will remark some basic facts which be necessary in our work . Chapter two , we will study the above physical equation by using the last method and using initial and boundary problems , In this chapter we will give some examples of solving this equations Finally we will show the references of our work .