## <u>Lab 5: Interpolation/Extrapolation using Newtons forward and backward differencen formulae.</u>

- 1. Write a Python program to Use Newtons forward interpolation and obtain the interpolating polynomial and hence calculate y(2) for the following
- x: 1 3 5 7 9 y: 6 10 62 210 502
- Write a Python program to use Newton's backward interpolation and obtain the interpolating polynomial and hence calculate y(8) for the following
- x: 1 3 5 7 9 y: 6 10 62 210 50