Student Name, Lastname: Student #: Daytime: Eveninig:	22-01-2021
(30)1- Why do we use virtual base classes? Explain.	
(40)2- Write the program code for overloading the operator "" for class myclass which is declared be for both postfix decrement and prefix decrement. (note: you must decrement every data member of my prefix and postfix decrement operaters are given below. class myclass {private:double a,b,c,d; public://constructor myclass (double u,double x, double v,double y) {a=u;b=x;c=v;d=y;} //constructor myclass operator();// declaration of prefix decrement myclass operator(int notused);// declaration of postfix dec. }	_
(40)3-Write a function template (generic function) to add two vector for basic data types such as float, do unsigned int. The general form of a template function definition is given below: template <class class="" type1,="" type2,="" type3,=""> return-type function-name(parameter list) {body of function} You can use the following declaration to add two vectors</class>	uble,long int, int, and

Here a and b are the vectors to be added. c is the vector to store the result, and v_size is the size of vectors. Write only definition of the generic function. Do not write anything for the "int main () {}" program.

(template <class X> void sum_vector(X &a, X &b, X &c ,int v_size)

{ You must fill this part }