**ASSIGNMENT 4**

//Purpose: The program of genarating geometric progression

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#include<simplecpp>

main\_program //Program starts here.

{

int b=0,i=0; //Variable is declared here; it should be integer.

float a,r,n; //Variable is declared here; it can be fraction, any real number.

cout<<"Here we are going to make a geometric progression. \n"; // Output saying that to star with geometric progression.

cout<<"Please enter the first term of sequence:"; //Command to take input of first term.

cin>>a; //taking input

cout<<"Please enter the common ratio of sequence:"; // output to take comaan ratio of sequence.

cin>>r; //taking input; putting the input value for variable.

cout<<"Please enter the number of terms:"; // command showing output to take number of terms as input

cin>>b; // taking input and putting input value to variable.

cout<<a<<"\t"; // showing first term output

n=a\*r; // first operation

cout<<n<<",\t"; //giving out the second term.

for(i=3;i<=b;i=i+1) //For loop declaration(initialization; checking condition; changing variable )

{ // For loop starts here.

n=n\*r; //operation on n

cout<<n<<","<<"\t"; //output of n

} //For loop ends here.

cout<<"\n";

cout<<"Thank you. Program ends here. \n"; //Program ends here.

} //Main program ends here.

