VENKATESHWARA OPEN UNIVERSITY	Max Marks - 100
Subject -Visual Basic	
Program - BCA	Passing Marks - 50
Semester - IV	Total Question - 10 (10 Marks Each)

Important: Student should attempt every question and submit the answer sheet with response to below questions.

Questions:

- 1. Program that can solve geometric problems based on Pythagoras Theorem
- 2. Simultaneous Linear Equations Solver.
 Simultaneous equations are equations that involves two or more unknown variables. Linear simultaneous equations take the following forms:

ax+by=m cx+dy=n

- 3. Program to generate a geometric progression and displays the results in a list box. Geometric progression is a sequence of numbers where each subsequent number is found by multiplying the previous number by a fixed number.
- 4. Program to calculate the maximum number among the three numbers
- 5. Program that can solve geometric problems based on Pythagorean Theorem
- 6. Program to calculate angles and any side of the triangle using sine rule
- 7. Program that can find factors of a number entered by the user and display them in a list box
- 8. Program to plot the path of a projectile, using the basic concept of missile launching. This path is determined by the launching angle and speed. The formula is $y=(V\sin a) t- 1/2(gt2)$ and $x=(V\cos a)t$, where $V=(\sin a)t$ while t is time.
- 9. Program to create a simple model of simple harmonic motion, use the equation x=Acos(wt), and assign a value of 500 to A and a value of 50 to w. Insert a shape and set it to be a circle in the properties windows. Next, insert two command buttons and change the captions to start and stop respectively. Finally, insert a timer
- 10. Program to make Investment Calculator

Kindly mention the following details at the top of your Lab Submission Sheet:

Reference/enrollment number.	
Student Name	
Subject Name	
Semester/Year	

*Please Note: If any of the details are missing your Lab Submission will not be considered for evaluation. University is not responsible for any consequences arising due non submission of details.