# Assignment-1

# Write user-friendly programs to find: (use Math.sqrt() wherever required)

# Find the area of a park given measurement of its 3 sides, given formula:

# Area of triangle with 3 sides formula is called Heron's formula 2M

# Find the ice-cream content in a Cornetto:

# Volume of a cone, given formula : V=(1/3)hπr². 2M

# Find the shortest distance between your house and PES University:

# (x1, y1) : co-ordinate of your location

# (x2, y2): co-ordinate of PESU location

# Distance between two points, given formula:

# d=√((x2 - x1)² + (y2 - y1)²) 3M

# 2. Write a Java program to:

# nPr (Permutation) and nCr (Combination) 3M

# Display the pattern for a given limit of lines:

# 1

# 23

# 456.. 5M

# 3. Convert Most-Significant Digit to Least-Significant Digit. 5 M

# Example: Given number – 4586

# Output - 5864

# 4. Maruti Suzuki Nexa at Mysore road has 5 Baleno, 7 Ignis and 8 Ciaz cars. The cost of each model is different. Write a program which includes three methods update(), sell() and tot\_sales().

# update() method will update the cost of each model, whenever required.

# sell() method will add cost of the car to ‘total\_sold’ when a specific model is sold.

# tot\_Sales() method will display the total sales amount and total number of cars sold in each category(model), at any given point of time. 10 M