CHRIST (Deemed to be University)
BANGALORE CENTRAL CAMPUS
DEPARTMENT OF COMPUTER SCIENCE
CIA Component -II
COURSE CODE/ COURSE NAME: MCA272 – PROGRAMMING IN JAVA

PROGRAM – II MCA B Time Duration – 1.30 hrs Marks – 30 Marks

An Advertisement company keeps the main information about the advertisement such as Advertisement_id, Client_Name, start_date of advertisement in a class called **Advertisement**. From this class derive two classes: **Commercial_Add** and **Free_Add**. Commercial_Add class keeps the additional information such as size_of_add in cm and prize of add per cm. The function add_Cost() calculate and return the cost of the add. Free_Add class adds free_add_time_duration (in months).

The program should have the following features (CO1, CO2 & CO3)

1. Array of objects to create multiple instances of the Commercial_Add and Free_Add classes (Minimum three objects)
2. Automatic generation of the advertisement_id
3. Use of **super** keyword to pass parameters to parent class constructors and **this** keyword wherever possible.
   Implement the program in java with the following options
   1. Read values to Commercial Add and Free Add instances
   2. Display values of Commercial Add and Free Add instance
   3. Display the add cost for commercial add for the given advertisement id.
   4. Display all the free adds with a duration more than 3 months
   5. Display the total income from commercial add

Note: You can add additional functions in the classes wherever required.