Activity 1

1. Start.
2. Declare 1d array named sales and initialise the array with following values.
3. Declare four 1d arrays named ceil,floor,sq and radian and create each those four arrays with the size of 5.
4. Call math method.
5. Display results.
6. End.

Activity 2

1. Start.
2. User input speed in km/h.
3. Call method- kmh.
4. for(mile=60;mile<=130;mile+=10)
5. km=mile/0.6214.
6. Display km/h and miles
7. End

Activity 3

1. Start.
2. User input an integer.
3. Call method pattern.
4. For pattern I
   * 1. For j=0; j<=i; j++
     2. Display num+
5. For pattern II
   * 1. i=rows-1; i>=0; i--)
     2. num=1;
     3. for(j=0; j<=i; j++)
     4. Display num+
6. For patern III
   * 1. for (i = num - 1; i >= 0; i--)
     2. for (k = i; k >= 1; k--)
     3. for (j = num - i; j >= 1; j--) {
     4. display +j
7. for pattern IV
   * 1. for(i=1; i<=rows; i++)
     2. num = 1
     3. for(j=1; j<=i; j++)
     4. for(j=i; j<=rows; j++)
     5. display num+++
8. End

Activity 4

1. Start.
2. Declare and one 1d array named mark and grade with data type int and create it with the size of 5.
3. Call method – read\_input
4. Call method- identify\_Grade
5. Call method- calculate average
6. Display results
7. End

Activity 5

1. Start
2. for(tax = 50000;tax <= 60000;tax += 50)
3. create and display user-defined methods single(tax),joined\_m(tax), sepearte\_m(tax) and house\_head(tax) which undergo predefined method Math.round() respectively and display also Math.round(tax).
4. Display results
5. End