1.

```
class assg1 {
   public static void main(String[] args) {
      int[] arr = new int[10];
      arr[0] = 12;
      arr[1] = 35;
      arr[2] = 47;
      arr[3] = 59;
      arr[4] = 62;
      arr[5] = 73;
      arr[6] = 81;
      arr[7] = 93;
      arr[8] = 111;
      arr[9] = 121;

      System.out.println(arr[0]);
      System.out.println(arr[3]);
      System.out.println(arr[5]);
   }
}
```

2.

```
class assg2 {
   public static void main(String[] args) {
      double[] averages = {85.66, 78, 67.33, 57.66, 81, 91, 53.66, 61.66, 74.33, 79.33};

      System.out.println( averages[2]);
      System.out.println( averages[6]);
   }
}
```

3.

```
class assg3{
        public static void main (String[] args){
                int[] reserves= {2362, 2311, 1917, 1912,  1887, 1854, 1717, 1717, 1779, 1705, 1806, 1896};



                //2
                System.out.println("January : " + reserves[0]);
    System.out.println("February: " + reserves[1]);
    System.out.println("March   : " + reserves[2]);
    System.out.println("April   : " + reserves[3]);
    System.out.println("May     : " + reserves[4]);
    System.out.println("June    : " + reserves[5]);
    System.out.println("July    : " + reserves[6]);
    System.out.println("August  : " + reserves[7]);
    System.out.println("September: " + reserves[8]);
    System.out.println("October : " + reserves[9]);
    System.out.println("November: " + reserves[10]);
    System.out.println("December: " + reserves[11]);
```

```
                System.out.println("================================================");
                //3
                reserves[3] = 1812;
                reserves[6] = 1817;

                //4
                System.out.println("April  : " + reserves[3]);
                System.out.println("July   : " + reserves[6]);


                }
        }
```

4.

```
public class assg4 {
  public static void main(String[] args) {
    String ar = "Institute Of Computer Engineering Technology";
    char[] br = ar.toCharArray();
    int i = 0;
    while (i < br.length) {
      while (i < br.length && br[i] != ' ') {
        System.out.print(br[i]);
        i++;
      }
      System.out.println();
      i++;
    }
  }
}
```

5.

```
class assg5 {
  public static void main(String[] args) {
    //1
    int[] marks = {56, 81, 43, 69, 93, 54, 48, 47, 51, 79, 82, 96, 57, 61, 66};

    //2
    System.out.print("Number of marks: " + marks.length);


    //3
                for(int i=0; i<5; i++){
                        System.out.println(marks[i]);
                }

    //4
     System.out.println("All marks:");
    for(int i = 0; i < marks.length; i++) {
      System.out.println(marks[i]);
```

```
    }

    //5
    System.out.println("10th element to the last element:");
    for(int i = 9; i < marks.length; i++) {
      System.out.println(marks[i]);
    }

  }
}
```

6.

```
public class assg6 {
  public static void main(String[] args) {
    //1
    String[] days = new String[7];
    String[] dayNames = {"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"};


    for (int i = 0; i < days.length; i++) {
      days[i] = dayNames[i];
    }


    System.out.println( java.util.Arrays.toString(days));


    System.out.print("[ ");
    for (int i = days.length - 1; i >= 0; i--) {
      System.out.print(days[i]);
      if (i != 0) {
        System.out.print(" ,");
      }
    }
    System.out.print("] ");
  }
}
```

7.

```
class assg7 {
  public static void main(String[] args) {

                    //1
    char[] blockLetters = new char[26];


    for (int i = 0; i < blockLetters.length; i++) {
      blockLetters[i] = (char) ('A' + i);
    }
```

```
    //2
    System.out.print("Block Letters: [ ");
    for (char letter : blockLetters) {
      System.out.print(letter + " ");
    }
    System.out.println("]");

    //3
    System.out.print("Even Index Letters: [ ");
    for (int i = 0; i < blockLetters.length; i += 2) {
      System.out.print(blockLetters[i] + " ");
    }
    System.out.println("]");

    //4
     System.out.print("Odd Index Letters: [ ");
    for (int i = 1; i < blockLetters.length; i += 2) {
      System.out.print(blockLetters[i] + " ");
    }
    System.out.println("]");

   //5
     System.out.print("Reverse Order: [ ");
    for (int i = blockLetters.length - 1; i >= 0; i--) {
      System.out.print(blockLetters[i] + " ");
    }
    System.out.println("]");

  }
}
```

8.

```
class assg8 {
  public static void main(String[] args) {

     //2
    int[] rainfall = {2346, 1945, 2060, 1781, 2365, 1005, 1162, 1016, 1512, 2231, 1903, 12061, 1005, 1545,
2156, 2037, 1583, 3668};
    System.out.println("Number of districts: " + rainfall.length);


                  //3
    int count2000 = 0;
     for (int value : rainfall) {
      if (value > 2000) {
        count2000++;
      }
    }
    System.out.println("Number of districts with more than 2000mm of annual rainfall: " + count2000);
```

```
      //4
      int count1000 = 0;
      for (int value : rainfall) {
         if (value < 1000) {
            count1000++;
         }
      }
      System.out.println("Number of districts with more than 2000mm of annual rainfall: " + count1000);


      //5
      int total = 0;
       for (int value : rainfall) {
         total+= value;
      }
     System.out.println("Average annual rainfall: " + (total / (double) rainfall.length) );


   }
}
```

9.

A. array=new int[5];

B. array=new int[10];

C. array=new int[-5];

E. array=new int[]{10, 20, 30, 40, 50};

F. array=new int[]{};

10.

```
public class assg10 {
   public static void main(String[] args) {
      int[] results = {6, 3, 3, 2, 4, 1, 6, 6, 2, 4};
      int count3 = 0;
      int count6 = 0;
      int oddCount = 0;
      boolean fiveRolled = false;

      for (int i = 0; i < results.length; i++) {
         if (results[i] == 3) {
            count3++;
         }
         if (results[i] == 6) {
            count6++;
         }
         if (results[i] % 2 != 0) {
            oddCount++;
         }
```

```
        if (results[i] == 5) {
            fiveRolled = true;
        }
    }

    System.out.println("Number of times '3' rolled: " + count3);
    System.out.println("Number of times '6' rolled: " + count6);
    System.out.println("Number of odd numbers rolled: " + oddCount);
    System.out.println("Was '5' rolled? " + (fiveRolled ? "Yes" : "No"));
  }
}
```

11.

```

```