Student Preparation Program for the Semester 2

Programming Tutorial

<Ranasinghe R.A.N.J.>

Sri Lanka Institute of Information Technology

Faculty of Computing

First Year Division

Question 1

a) int miles ;
   int yards;
   double kilometers ;

b) int miles = 26;
   int yards = 385;

c) kilometers = (miles + (yards / 1760.0)) * 1.609;
d) double kilometers = (miles + (yards / 1760.0)) * 1.609;

Question 2

```
public class tutorial {

    public static void main (String [] args) {
        int [] a = { 10, 20, 30, 40, 50 } ;
        int [] b = { 34, 67, 12, 89, 12 } ;
        int [] c = new int [5] ;

            for (int i = 0 ; i <=4 ; i++){

                    c[i] = a[i] + b[ i] ;


}
for (int i = 0 ; i <= 4 ; i++){
System.out.print(c [i] + " ");
}
}
}
```

Question 3

(a) class EvenOddNumber {

```
  // b & c) method that returns a boolean value
  boolean findEvenOrOdd(int i) {
    if (i % 2 == 0) {
      return true;   // even number
    } else {
      return false;  // odd number
    }
  }
}
```

(d) public class Demo {

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

    // create object from EvenOddNumber class
    EvenOddNumber obj = new EvenOddNumber();

    int number = 7;

    // e) call the method and display output
    if (obj.findEvenOrOdd(number)) {
      System.out.println(number + " is an Even number");
    } else {
      System.out.println(number + " is an Odd number");
```

```
    }
  }
}
```

Question 4

(a)

```
public class sliit {

  public static void main (String [] args){

    int i = 1;
    while (i <= 5) {
      int j = 1;
      while (j <= 5) {
        System.out.print("* ");
        j++;
      }
      System.out.println();
      i++;
    }

  }
}
```

(b) public class sliit {

public static void main (String [] args){

for (int row = 1; row <= 5; row++) {
for (int space = 5; space > row; space--) {
System.out.print(" ");
}
for (int star = 1; star <= row; star++) {
System.out.print("* ");
}
System.out.println();
}
}
}