

UNIVERSITY OF GLASGOW – SCHOOL OF COMPUTING SCIENCE CSC 1009

OBJECT-ORIENTED PROGRAMMING

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1.

```
1  import java.util.*;
2
3  public class Question1Lab2
4  {
5      Run | Debug
6      public static void main(String arg[])
7      {
8          Scanner input = new Scanner (System.in);
9          System.out.print("Enter a number for radius: ");
10         double radius = input.nextDouble();
11
12         double pi = 3.14159;
13         double area = radius * radius * pi;
14
15         System.out.println("The area for the circle of radius " + radius);
16         System.out.println("is " + area);
17         input.close();
18     }
```

2.

```
1  import java.util.*;
2
3  public class Question2Lab2
4  {
5      Run | Debug
6      public static void main(String arg[])
7      {
8          Scanner input = new Scanner (System.in);
9          System.out.print("Enter three numbers: ");
10         double num1 = input.nextDouble();
11         double num2 = input.nextDouble();
12         double num3 = input.nextDouble();
13         input.close();
14
15         double average = (num1 + num2 + num3)/3.0;
16
17         System.out.println("The average of " + num1 + " " + num2 + " " + num3 + " is " + average);
18     }
```

3.

```
1  public class Question3Lab2
2  {
3      Run | Debug
4      public static void main(String arg[])
5      {
6          double totalMilliseconds = System.currentTimeMillis();
7          double totalSeconds = totalMilliseconds/1000;
8          int currentSeconds = (int)totalSeconds%60;
9          double totalMinutes = totalSeconds/60;
10         int currentMinute = (int)totalMinutes%60;
11         double totalHours = totalMinutes/60;
12         int currentHours = (int) totalHours %24;
13
14         System.out.println("Current time is " + currentHours + ":" + currentMinute + ":" + currentSeconds + " GMT");
15     }
```

4.

```
1  import java.util.*;
2  public class Question4Lab2 {
3
4      Run | Debug
5      public static void main(String arg[])
6      {
7          Scanner input = new Scanner (System.in);
8          System.out.print("Enter a year: ");
9          int year = input.nextInt();
10         input.close();
11
12         int yearR = year % 12;
13         switch(yearR)
14         {
15             case 0:
16                 System.out.println("monkey");
17                 break;
18             case 1:
19                 System.out.println("rooster");
20                 break;
21             case 2:
22                 System.out.println("dog");
23                 break;
24             case 3:
25                 System.out.println("pig");
26                 break;
27             case 4:
28                 System.out.println("rat");
29                 break;
30             case 5:
31                 System.out.println("ox");
32                 break;
33             case 6:
34                 System.out.println("tiger");
35                 break;
36             case 7:
37                 System.out.println("rabbit");
38                 break;
```

```
38  case 8:
39         System.out.println("dragon");
40         break;
41  case 9:
42         System.out.println("snake");
43         break;
44  case 10:
45         System.out.println("horse");
46         break;
47  case 11:
48         System.out.println("sheep");
49     }
50 }
51 }
```