WXES1116 Programming I Semester 1 2014/2015 Lab 3: Flow of Control (Selection)

1. Write a program to teach basic shapes to kindergarten children. The program allows a user to input the number that represents a shape, then, the corresponding shape will be displayed on screen as shown in the sample output below. Use switch statement to solve the problem.

```
Enter a number to display the shape

1. Square
2. Circle
3. Triangle
4. Rectangle
?:1

* * * *

* * *

* Square
```

2. Write a program that stimulates a simple calculator. It reads two integers and a character. If the character is a +, the sum is printed; if it is a -, the difference is printed; if is a *, the multiplication is printed; if it is a /, the quotient is printed; and if it is a %, the remainder is printed. (Use the String.charAt(0) to return the character)

```
Enter two integer number: 30 5
Enter the operand: /
30 / 5 = 6
```

3. Generate a random integer within 0 to 5 and display the integer in word.

2 is two.

4. Write a program that calculates the total commission receives based on the table below. The program will accept the sales volume and calculate the commission. Display the commission in two decimal places.

Sales Volume	Commission
Less than or equal to 100	5% of total sales
Greater than 100 and less than or equal to 500	7.5% of total sales
Greater than 500 and less than or equal to 1000	10% of total sales
Greater than 1000	12.5% of total sales

- 5. Write a simple two players dice game. Each player will roll the dice twice and the player with the highest score wins the game.
- 6. Write a program that calculates the salary for the employee. The hourly rate for permanent staff (P) is 200, contract staff (C) is 150 and temporary staff (T) is 100. The program accepts the employee type and the number of hours the employee work.