SET 6

(Core Java Programs - IF ELSE and Switch Case)

1. Write a program to check given two points of a line is parallel to X axis or Y Axis or not parallel to any axis in a Cartesian coordinate system.

2. Write a program to find the grade of a student of a subject based on given table.

Marks	Grade
>=0 to 35	FAIL
36 to 40	Pass Class
41 to 50	3rd Division
51 to 60	2nd Division
61 to 70	1st Division
71 to 100	Distinction

3. Write a program to find grade of an employee based on the following given table .

Salary	Grade
<15000	Peon
15001 to 25000	2nd Division Clerk
25001 to 35000	1st Division Clerk
35001 to 45000	Assistant Manager
45001 to 60000	Manager

4. Write a program to find all root of a quadratic Equation $Ax^2+Bx+C=0$ for non zero co-efficient A, B, C else report error.

5. Write a Program to check whether a given character is Lower Character Alphabet or Upper Character Alphabet or Digits.

6. Write a program to accept the co efficient of a quadratic equation like a,b and c and then find the Discriminant (disc= (b*b)- 4*a*c). And display the type of the roots.

(Programs for Switch Case)

7. Write a program to check whether a given number is even or odd
8. Write a program to print the colors of Rainbow on entering its first character of the color
9. Write a program to calculate the area of different geometric shapes like Square,Rectangle,Circle and triangle based on the user Choice

10. Write a program to perform the different arithmetic operations based on the user choice in numerical form
11. Write a program to perform the different arithmetic operations based on the user choice in symbolic form
12. Write a program which accept letter for the grade, Print its Remark Using Switch case (Use table)

Letter	Remark
S	SUPER
A	Very Good
B	FAIR
Y	ABSENT
F	FAIL

*****