Assignment – 5
6th March 6, 2023
(Use if - else)

Q1. WAP in JAVA to input basic salary and to compute Gross salary of an employee if salary is less than 12000 then HRA will be 20%, and DA will be 115% of Basic salary otherwise HRA will be 15% and DA will be 90% of Basic salary.

Q2. WAP in JAVA to input an amount in Rs through command line argument and find the minimum number of 2000, 500, 200, 100, 50, 20, 10, 5, 2 and 1 Rs denominations will be needed to have that amount.

Ex: Rs. 3868 => (2000*1) + (500*3) + (200*1) + (100*1) + (50*1) + (10*1) + (5*1) + (2*1) + (1*1)

Q3. Test the nature of the root of a quadratic equation $ax^2+bx+c=0$. The nature can be tested from the discriminant $d=b^2-4ac$. The result can be displayed from the Table-2 after finding d from the values given in Table-1.

Table-1

a	b	c	Result(d)
2	6	1	
2	-4	3	
3	3	0	
1	3	1	
0	12	-3	

Table-2

d<0	d=0	d>0	
Root is imaginary.	Roots are equal so only one root.	Rational and squared.	Rational but not squared.

Q4. Input 3 sides of a triangle and find out which type of triangle(Isosceles, Scalene, Equilateral) is this.