Ques 1

package Super;

import java.util.\*;

public class Increment\_calculator {

public static void main(String[] args) {

System.out.println("Enter your Salary and rating");

Scanner sc = new Scanner(System.in);

int sal = sc.nextInt();

double x = sc.nextDouble();

double inc =0;

if(sal<0)

{

System.out.println("Invalid");

}

if(x>=1 && x<=3)

inc = 0.10;

else if (x>3 && x<=4)

inc = 0.25;

else if(x>4)

inc = 0.3;

else

{

System.out.println("Invalid");

}

double total;

total = sal+ (sal\*inc);

System.out.println("Final Compensation is " + total);

}

}

Ques 2

package dvance;

import java.util.Scanner;

public class Reverse {

public static void main(String [] args)

{

System.out.println("Enter a number");

Scanner sc= new Scanner(System.in);

int x = sc.nextInt();

int rev=0;

int num = x;

if(num<0)

System.out.println("Number is Invalid");

while(x!=0)

{

int rem;

rem=x%10;

rev = rev\*10 +rem;

x=x/10;

}

System.out.println("reverse is " + rev);

if(rev==num)

System.out.println("Palindrome");

else

System.out.println("Not Palindrome");

}

}

Ques 3

import java.util.Scanner;

public class Ticket\_calculator {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the no. of tickets");

int num = sc.nextInt();

if(num<5 || num>40)

System.out.println("Invalid number of tickets");

int ticket\_cost=0;

System.out.println("Enter ticket type now (k or q )");

char ticket\_type = sc.next().charAt(0);

switch (ticket\_type) {

case 'k' -> ticket\_cost = 75;

case 'q' -> ticket\_cost =150;

default -> System.out.println("Invalid ticket type");

}

System.out.println("Do you have coupon (y or n)");

char coupon = sc.next().charAt(0);

System.out.println("Do you want refreshments");

char refresh = sc.next().charAt(0);

double total\_cost ;

double final\_cost = 0;

total\_cost = ticket\_cost\*num;

if(num>20)

{

total\_cost = total\_cost\* 0.9;

}

if(coupon == 'y')

{

total\_cost= total\_cost\* 0.98;

}

if(refresh =='y')

{

int refresh\_cost = num\*50;

final\_cost= total\_cost+ refresh\_cost;

}

System.out.println("The final cost is " + final\_cost);

}

}