```
import java.util.*;
import java.text.DecimalFormat;
public class Lottery
// Winning numbers should be between 1 and 40
public static Set<Integer> generateWinningNumbers(){
   int max = 9;
  int min = 1;
   Set<Integer> tempSet = new TreeSet<Integer>();
   for(int i = 0; i < 6; i++){
      int num = (int) (Math.random() * (max - min + 1) + min);
      tempSet.add(num);
  return tempSet;
// Read the player's lottery ticket from the console
 public static Set<Integer> getTicket(){
   Scanner scan = new Scanner(System.in);
   System.out.println("Type 6 lotto numbers: ");
   Set<Integer> tempSet = new TreeSet<Integer>();
   for(int i = 0; i < 6; i++){
   tempSet.add(scan.nextInt());
   scan.close();
   return tempSet;
 public static void main(String[] args) {
    Set<Integer> mySet = getTicket();
   Set<Integer> winSet = generateWinningNumbers();
   System.out.println("Your ticket was: " + mySet);
    System.out.println("Winning numbers: " + winSet);
   winSet.retainAll(mySet);
   System.out.println("Match numbers: " + winSet);
   double num = 0;
   for(int i = 0; i < winSet.size(); i++){</pre>
      num = num + 250;
   DecimalFormat FORMAT = new DecimalFormat("$#.00");
   System.out.println("Your prize is " + FORMAT.format(num));
```

```
Type 6 lotto numbers:

2
5
6
3
8
9
Your ticket was: [2, 3, 5, 6, 8, 9]
Winning numbers: [1, 2, 5, 7]
Match numbers: [2, 5]
Your prize is $500.00
```