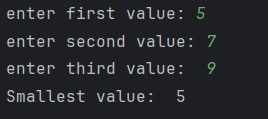
**Lab worksheet 4: Selection Statements**

**Question 01**

**Code:**

package Que\_01;  
  
import java.util.Scanner;  
  
public class Min {  
 public static void main(String[] args) {  
 Scanner input = new Scanner(System.*in*);  
 System.*out*.print("enter first value: ");  
 int f\_Num = input.nextInt();  
  
 System.*out*.print("enter second value: ");  
 int s\_Num = input.nextInt();  
  
  
 System.*out*.print("enter third value: ");  
 int t\_Num = input.nextInt();  
  
  
  
 int smallest = f\_Num;  
 if(s\_Num<smallest){  
 smallest = s\_Num;  
  
 }  
 if(t\_Num < smallest){  
 smallest = t\_Num;  
 }  
 System.*out*.println("Smallest value: " + smallest);  
  
 }  
}

**Output:**

****

**Question 02**

**Code:**

package Que\_02;  
  
import java.util.Scanner;  
  
public class Main {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.println("0.Magenta");  
 System.*out*.println("1.Cyan");  
 System.*out*.println("2.Red");  
 System.*out*.println("3.Blue");  
 System.*out*.println("4.Green");  
 System.*out*.print("Select one color from the above list: ");  
 int selection = scanner.nextInt();  
 String color;  
 switch(selection){  
 case 0:  
 color = "Magenta";  
 break;  
 case 1:  
 color = "Cyan";  
 break;  
 case 2:  
 color = "Red";  
 break;  
 case 3:  
 color="Blue";  
 break;  
 case 4:  
 color="Green";  
 break;  
 default:  
 color="Null";  
 break;  
 }  
 if(color == null){  
 System.*out*.println("Invalid Statement");  
 }  
 else{  
 System.*out*.println("Your select color "+ color);  
 }  
}  
}

**Output:**

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AI-generated content may be incorrect.**

**Question 3**

**Code:**

package Que\_03;  
  
import java.util.Scanner;  
  
public class Power {  
 public static void main(String[] args) {  
 System.*out*.println("6 Million");  
 System.*out*.println("9 Billion");  
 System.*out*.println("12 Trillion");  
 System.*out*.println("15 Quadrillion");  
 System.*out*.println("18 Quintillion");  
 System.*out*.println("21 Sextillion");  
 System.*out*.println("30 Nonillion");  
 System.*out*.println("100 Googol");  
  
 Scanner input = new Scanner(System.*in*);  
 System.*out*.print("Input the 10 th Power: ");  
 int power = input.nextInt();  
 String message;  
 switch (power){  
 case 6:  
 message="Million";  
 break;  
 case 9:  
 message="Billion";  
 break;  
 case 12:  
 message=" Trillion";  
 break;  
 case 15:  
 message="Quadrillion";  
 break;  
 case 18:  
 message="Quintillion";  
 break;  
 case 21:  
 message="Sextillion";  
 break;  
  
 case 30:  
 message="Nonillion";  
 break;  
 case 100:  
 message="Googol";  
 break;  
 default:  
 message="null";  
 break;  
 }  
 if(message == null){  
 System.*out*.println("Invalid Statement");  
 }  
 else{  
 System.*out*.println("Your Selection "+ message);  
 }  
 }  
}

**Code:**

**A screen shot of a computer

AI-generated content may be incorrect.**

**Question 04**

**Code:**

package Que\_04;  
import java.util.Scanner;  
  
public class LeapYearChecker {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
  
 System.*out*.print("Enter a year: ");  
 int year = scanner.nextInt();  
  
  
 if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {  
 System.*out*.println("Leap Year");  
 } else {  
 System.*out*.println("Not a Leap Year");  
 }  
  
 scanner.close();  
 }  
}

**Output:**

**A black background with white text

AI-generated content may be incorrect.**

**Question 5**

**Code:**

package Que\_05;  
  
import java.util.Scanner;  
  
public class MyJavaLoFatBurgers {  
  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
  
 String[] entrees = {"Tofu Burger", "Cajun Chicken", "Buffalo Wings", "Rainbow Fillet"};  
 double[] entreePrices = {3.49, 4.59, 3.99, 2.99};  
  
 String[] sides = {"Rice Cracker", "No-Salt Fries", "Zucchini", "Brown Rice"};  
 double[] sidePrices = {0.79, 0.69, 1.09, 0.59};  
  
 String[] drinks = {"Cafe Mocha", "Cafe Latte", "Espresso", "Oolong Tea"};  
 double[] drinkPrices = {1.99, 1.90, 2.49, 0.99};  
  
  
 System.*out*.println("Choose an Entree:");  
 *displayMenu*(entrees, entreePrices);  
 int entreeChoice = scanner.nextInt();  
  
 System.*out*.println("Choose a Side Dish:");  
 *displayMenu*(sides, sidePrices);  
 int sideChoice = scanner.nextInt();  
  
  
 System.*out*.println("Choose a Drink:");  
 *displayMenu*(drinks, drinkPrices);  
 int drinkChoice = scanner.nextInt();  
  
  
 double total = entreePrices[entreeChoice - 1] + sidePrices[sideChoice - 1] + drinkPrices[drinkChoice - 1];  
  
  
 System.*out*.println("\nYour Order Summary:");  
 System.*out*.println("Entree: " + entrees[entreeChoice - 1] + " - $" + entreePrices[entreeChoice - 1]);  
 System.*out*.println("Side Dish: " + sides[sideChoice - 1] + " - $" + sidePrices[sideChoice - 1]);  
 System.*out*.println("Drink: " + drinks[drinkChoice - 1] + " - $" + drinkPrices[drinkChoice - 1]);  
 System.*out*.printf("Total Price: $%.2f\n", total);  
  
 scanner.close();  
 }  
  
  
 public static void displayMenu(String[] items, double[] prices) {  
 for (int i = 0; i < items.length; i++) {  
 System.*out*.printf("%d. %s - $%.2f\n", i + 1, items[i], prices[i]);  
 }  
 System.*out*.print("Enter your choice (1-" + items.length + "): ");  
 }  
}

**Output:**

**A screen shot of a computer

AI-generated content may be incorrect.**