```
QUESTION-01
package Q_01;
import java.util.Scanner;
public class Q_01 {
  public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
     System.out.print("Enter the first number: ");
   int num1 = scanner.nextInt();
   System.out.print("Enter the second number: ");
   int num2 = scanner.nextInt();
   System.out.print("Enter the third number: ");
   int num3 = scanner.nextInt();
   int smallest;
   if (num1 <= num2 && num1 <= num3) {
     smallest = num1;
   } else if (num2 <= num1 && num2 <= num3) {
     smallest = num2;
   } else {
     smallest = num3;
   }
   System.out.println("The smallest number is: " + smallest);
   scanner.close();
 }
}
```

```
QUESTION-02
package Q_02;
import java.util.Scanner;
public class Q_02 {
  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.println("Select one color from the above list:");
   int selection = scanner.nextInt();
   switch (selection) {
     case 0:
       System.out.println("You selected Magenta");
       break;
     case 1:
       System.out.println("You selected Cyan");
       break;
     case 2:
       System.out.println("You selected Red");
       break;
     case 3:
       System.out.println("You selected Blue");
       break:
     case 4:
       System.out.println("You selected Green");
       break;
     default:
       System.out.println("Invalid selection");
   }
   scanner.close();
 }
}
```

```
QUESTION-03
package Q_03;
import java.util.Scanner;
public class Q_03 {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter a power of 10 (6, 9, 12, etc.): ");
    int power = scanner.nextInt();
    switch (power) {
     case 6:
       System.out.println("Million");
       break;
     case 9:
       System.out.println("Billion");
       break;
     case 12:
       System.out.println("Trillion");
       break;
     case 15:
       System.out.println("Quadrillion");
       break;
     case 18:
       System.out.println("Quintillion");
       break:
     case 21:
       System.out.println("Sextillion");
       break;
     case 30:
       System.out.println("Nonillion");
       break;
     case 100:
       System.out.println("Googol");
       break;
     default:
       System.out.println("No corresponding word for this power of 10.");
```

```
}
    scanner.close();
 }
}
QUESTION -04
package Q_04;
import java.util.Scanner;
public class Q_04 {
  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(year + " is a Leap Year.");
   } else {
     System.out.println(year + " is Not a Leap Year.");
   }
   scanner.close();
 }
}
```

```
QUESTION-05
package Q_05;
import java.util.Scanner;
public class Q_05 {
  public static void main(String[] args) {
   String[] entrees = {"Tofu Burger", "Cajun Chicken", "Buffalo Wings", "Rainbow Fillet"};
   double[] entreePrices = {3.49, 4.59, 3.99, 2.99};
   String[] sideDishes = {"Rice Cracker", "No-Salt Fries", "Zucchini", "Brown Rice"};
    double[] sideDishPrices = {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};
   Scanner scanner = new Scanner(System.in);
   System.out.println("Welcome to MyJava Lo-Fat Burgers! Here is our menu:");
   int entreeChoice = getValidChoice(scanner, entrees, "entree");
   int sideDishChoice = getValidChoice(scanner, sideDishes, "side dish");
   int drinkChoice = getValidChoice(scanner, drinks, "drink");
    double totalPrice = entreePrices[entreeChoice] + sideDishPrices[sideDishChoice] +
drinkPrices[drinkChoice];
   System.out.println("\nYour Order:");
   System.out.println("Entree: " + entrees[entreeChoice] + " - $" +
entreePrices[entreeChoice]);
    System.out.println("Side Dish: " + sideDishes[sideDishChoice] + " - $" +
sideDishPrices[sideDishChoice]);
```

```
System.out.println("Drink: " + drinks[drinkChoice] + " - $" + drinkPrices[drinkChoice]);
    System.out.printf("\nTotal Price: $%.2f\n", totalPrice);
    scanner.close();
 }
  private static int getValidChoice(Scanner scanner, String[] items, String category) {
    int choice;
   while (true) {
     System.out.println("\n" + category + " options:");
     for (int i = 0; i < items.length; i++) {
       System.out.println((i + 1) + ". " + items[i]);
     System.out.print("Please choose a " + category + " by entering the number (1-" +
items.length + "): ");
     choice = scanner.nextInt() - 1;
     if (choice >= 0 && choice < items.length) {
        break;
     } else {
        System.out.println("Invalid choice! Please enter a number between 1 and " +
items.length + ".");
     }
   }
   return choice;
 }
```

}