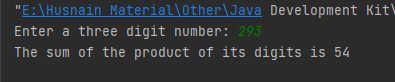
**Practice Questions**

**Question 01:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
  
public class Question01 {  
  
 public static void main(String[] args) {  
  
 int num;  
 int first\_digit;  
 int second\_digit;  
 int third\_digit;  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.print("Enter a three digit number: ");  
 num = sc.nextInt();  
  
 first\_digit = num / 100;  
 second\_digit = (num % 100) / 10;  
 third\_digit = (num % 100) % 10;  
  
 System.*out*.println("The sum of the product of its digits is " + (first\_digit \* second\_digit \* third\_digit));  
 sc.close();  
 }  
}

**Output Screenshot:**

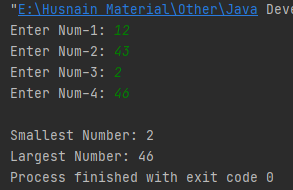


**Question 02:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
import java.util.Arrays;  
  
public class Question02 {  
  
 public static void main(String[] args) {  
  
 int [] num\_array = new int [4];  
  
 Scanner sc = new Scanner(System.*in*);  
  
 for (int i = 0; i < 4; i++){  
  
 System.*out*.printf("Enter Num-%d: ", i+1);  
 num\_array[i] = sc.nextInt();  
 }  
 Arrays.*sort*(num\_array);  
  
 System.*out*.println();  
 System.*out*.println("Smallest Number: " + num\_array[0]);  
 System.*out*.print("Largest Number: " + num\_array[3]);  
 sc.close();  
 }  
}

**Output Screenshot:**

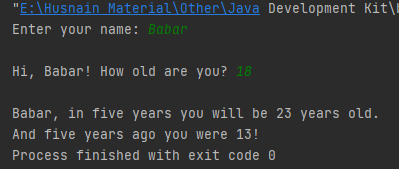
****

**Question 03:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
  
public class AgeIn5 {  
  
 public static void main(String[] args) {  
  
 String name;  
 int age;  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.print("Enter your name: ");  
 name = sc.nextLine();  
  
 System.*out*.println();  
 System.*out*.printf("Hi, %s! How old are you? ", name);  
 age = sc.nextInt();  
  
 System.*out*.println();  
 System.*out*.printf("%s, in five years you will be %d years old.\n", name, age+5);  
 System.*out*.printf("And five years ago you were %d!", age-5);  
 sc.close();  
 }  
}

**Output Screenshot:**

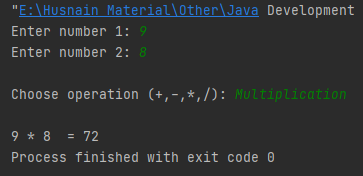
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**Question 04:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
  
public class Question04 {  
  
 public static void main(String[] args) {  
  
 int num\_1;  
 int num\_2;  
 String option;  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.print("Enter number 1: ");  
 num\_1 = sc.nextInt();  
 System.*out*.print("Enter number 2: ");  
 num\_2 = sc.nextInt();  
  
 System.*out*.println();  
 System.*out*.print("Choose operation (+,-,\*,/): ");  
 option = sc.next();  
 System.*out*.println();  
  
 switch (option) {  
 case "Addition" -> System.*out*.printf("%d + %d = %d", num\_1, num\_2, num\_1 + num\_2);  
 case "Subtraction" -> System.*out*.printf("%d - %d = %d", num\_1, num\_2, num\_1 - num\_2);  
 case "Multiplication" -> System.*out*.printf("%d \* %d = %d", num\_1, num\_2, num\_1 \* num\_2);  
 case "Division" -> System.*out*.printf("%d / %d = %.2f", num\_1, num\_2, (float) num\_1 / num\_2);  
 default -> System.*out*.print("Please enter a valid operation!");  
 }  
 sc.close();  
 }  
}

**Output Screenshot:**

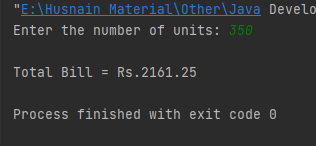
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**Question 05:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
  
public class Question05 {  
  
 public static void main(String[] args) {  
  
 int units;  
 float temp\_bill = 0;  
 float total\_bill;  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.print("Enter the number of units: ");  
 units = sc.nextInt();  
 System.*out*.println();  
  
 if (units <= 100){  
 temp\_bill = 4.0F \* units;  
 }if (units > 100 && units <= 300){  
 temp\_bill = 4.5F \* units;  
 }if (units > 300 && units <= 500){  
 temp\_bill = 4.75F \* units;  
 }if (units > 500){  
 temp\_bill = 5.0F \* units;  
 }  
 total\_bill = (temp\_bill \* 0.2F) + (temp\_bill \* 0.1F) + temp\_bill;  
 System.*out*.println("Total Bill = Rs." + total\_bill);  
 sc.close();  
 }  
}

**Output Screenshot:**

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**Question 06:**

**Code:**

package com.company;  
  
import java.util.Scanner;  
  
public class Question06 {  
  
 public static void main(String[] args) {  
  
 int [] [] factories = new int [4] [3];  
 String [] items = {"Bio-Degradable","Non-Biodegradable","Recyclable"};  
 int [] total\_items = new int [3];  
  
 Scanner sc = new Scanner(System.*in*);  
  
 for (int i = 0; i < 3; i++){  
  
 for (int j = 0; j < 4; j++){  
  
 System.*out*.printf("Number of %s products produced by Factory %d: ", items[i], j+1);  
 factories[j][i] = sc.nextInt();  
 total\_items[i] += factories[j][i];  
  
 }  
 System.*out*.println();  
 }  
 System.*out*.println();  
 System.*out*.println("\t\t\t\t\tFactory 01\t\tFactory 02\t\tFactory 03\t\tFactory 04");  
 System.*out*.println("\t\t\t\t\t----------\t\t----------\t\t----------\t\t----------");  
  
  
 System.*out*.printf("%s\t\t\t%d\t\t\t\t%d\t\t\t\t%d\t\t\t\t%d\n\n", items[0], factories[0][0], factories[1][0], factories[2][0], factories[3][0]);  
 System.*out*.printf("%s\t\t%d\t\t\t\t%d\t\t\t\t%d\t\t\t\t%d\n\n", items[1], factories[0][1], factories[1][1], factories[2][1], factories[3][1]);  
 System.*out*.printf("%s\t\t\t\t%d\t\t\t\t%d\t\t\t\t%d\t\t\t\t%d\n\n", items[2], factories[0][2], factories[1][2], factories[2][2], factories[3][2]);  
  
 System.*out*.println();  
 System.*out*.println("Total Bio-Degradable Items: " + total\_items[0]);  
 System.*out*.println("Total Non-Biodegradable Items: " + total\_items[1]);  
 System.*out*.println("Total Recyclable Items: " + total\_items[2]);  
 sc.close();  
 }  
}

**Output Screenshot:**

****

