**Q1.**

package com.msubaroda.shashank.lab3;

public class Lab1Q1 {

public static void main(String[] args) {

System.out.println("Hello champions");

}

}

**Q2.**

package com.msubaroda.shashank.lab3;

public class Lab1Q2 {

public static void main(String[] args) {

// System.out.print(); is only use to print the given statement.

// System.out.println(); is used to print and add move cursour pointer to next line.

System.out.print("Next statement will print is the same line. ");

System.out.print("This is next statement.");

System.out.println("\nNext statement will print in new line.");

System.out.println("This is Next statement.");

}

}

**Q3.**

package com.msubaroda.shashank.lab3;

public class Lab1Q3 {

public static void main(String[] args) {

System.out.println("This is a Message");

}

}

**Q4.**

package com.msubaroda.shashank.lab3;

// here we are importing java class scanner wich help us to take user input

import java.util.Scanner;

public class Lab1Q4 {

// main method which help to to show output with out creating object because it is static class

public static void main(String[] args) {

// here we create the scanner class object which help us to use ite functionality in program

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Number: ");

// takin input from user with the help of sc object

int num = sc.nextInt();

// if statement in java

if (num%5 == 0){

System.out.println("The Number is divisible by 5.");

}

else {

System.out.println("The Number is not divisible by 5.");

}

}

}

**Q5.**

package com.msubaroda.shashank.lab3;

public class Lab1Q5 {

public static void main(String[] args) {

for (int i = 1; i<6; i++){

System.out.println(i);

}

}

}

**Q6.**

package com.msubaroda.shashank.lab3;

public class Lab1Q6 {

public static void main(String[] args) {

for (int i = 10; i>0; i--){

System.out.println(i);

}

}

}

**Q7.**

package com.msubaroda.shashank.lab3;

public class Lab1Q7 {

public static void main(String[] args) {

int i = 1;

while (i<11){

System.out.println(i);

i++;

}

}

}

**Q8.**

package com.msubaroda.shashank.lab3;

//importing Sscanner module to take input from user

import java.util.Scanner;

public class Lab1Q8 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Number whose factorial you want: ");

int num = sc.nextInt();

int result = 1;

for (int i = 1; i<num+1; i++){

result = result \* i;

}

System.out.println("Factorial of the Number is: " + result);

}

}

**Q9.**

package com.msubaroda.shashank.lab3;

public class Lab1Q9 {

static int integer;

static float floating\_point\_number;

static double double\_number;

static long long\_number;

static byte byte\_number;

static String str;

static boolean bool;

public static void main(String[] args) {

System.out.println("The static/default value of integer variable is: "+ integer);

System.out.println("The static/default value of float variable is: "+ floating\_point\_number);

System.out.println("The static/default value of double variable is: "+ double\_number);

System.out.println("The static/default value of long variable is: "+ long\_number);

System.out.println("The static/default value of byte variable is: "+ byte\_number);

System.out.println("The static/default value of String variable is: "+ str);

System.out.println("The static/default value of boolean variable is: "+ bool);

}

}

**Q10.**

package com.msubaroda.shashank.lab3;

public class Lab1Q10 {

public static void main(String[] args) {

int num1, num2;

num1 = 10;

num2 = 20;

System.out.println("== Operator is: "+ (num1 == num2));

System.out.println("!= Operator is: "+ (num1 != num2));

System.out.println("> Operator is: "+ (num1 > num2));

System.out.println("< Operator is: "+ (num1 < num2));

System.out.println("<= Operator is: "+ (num1 <= num2));

System.out.println(">= Operator is: "+ (num1 >= num2));

}

}

**Q11.**

package com.msubaroda.shashank.lab3;

public class Lab1Q11 {

public static void main(String[] args) {

int num1;

System.out.print("= operator: ");

num1 = 10;

System.out.println(num1);

System.out.print("+= operator: ");

num1 += 10;

System.out.println(num1);

System.out.print("-= operator: ");

num1 -= 10;

System.out.println(num1);

System.out.print("\*= operator: ");

num1 \*= 10;

System.out.println(num1);

System.out.print("/= operator: ");

num1 /= 10;

System.out.println(num1);

System.out.print("%= operator: ");

num1 %= 10;

System.out.println(num1);

}

}

**Q12.**

package com.msubaroda.shashank.lab3;

// help to take user input

import java.util.Scanner;

public class Lab1Q12 {

// main static methord which can execute without using object

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the Weight in kgs: ");

int weight = sc.nextInt();

System.out.print("Enter the Height in meters: ");

int height = sc.nextInt();

float BMI = weight/(height \* height);

System.out.println("The BMI is: "+ BMI);

}

}

**Q13.**

package com.msubaroda.shashank.lab3;

// help to take user input

import java.util.Scanner;

public class Lab1Q13 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the Weight in kgs: ");

int weight = sc.nextInt();

System.out.print("Enter the Height in meters: ");

int height = sc.nextInt();

float BMI = weight/(height \* height);

System.out.println("The BMI is: "+ BMI);

if (BMI < 18.6){

System.out.println("Status : UnderWeight");

}

else if(BMI < 25){

System.out.println("Status : Normal");

}

else if (BMI < 30){

System.out.println("Status : OverWeight");

}

else {

System.out.println("Status : Obese");

}

}

}

**Q14.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q14 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the Principle: ");

int principle = sc.nextInt();

System.out.print("Enter the Rate: ");

int rate = sc.nextInt();

System.out.print("Enter the Time: ");

int time = sc.nextInt();

float si = (principle \* rate \* time)/100;

System.out.println("The simple intrest is: " + si);

}

}

**Q15.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q15 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the Principle: ");

int principle = sc.nextInt();

System.out.print("Enter the Time: ");

int time = sc.nextInt();

for (int rate = 1; rate < 11; rate++) {

float si = (principle \* rate \* time) / 100;

System.out.println("The simple intrest of rate "+rate+"% is: " + si);

}

}

}

**Q16.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q16 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the year: ");

int year = sc.nextInt();

if (year % 400 == 0){

System.out.println(year + " is a leap year.");

}

else if (year % 100 == 0){

System.out.println(year + " is not a leap year.");

}

else if (year % 4 == 0){

System.out.println(year + " is a leap year.");

}

else {

System.out.println(year + " is not a leap year.");

}

}

}

**Q17.**

package com.msubaroda.shashank.lab3;

public class Lab1Q17 {

public static void main(String[] args) {

String name = "Shashank Singh";

for (int i = 0; i<10; i++){

System.out.println(name);

}

}

}

**Q18.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q18 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a Character: ");

Character ch = sc.next().charAt(0);

if (Character.isDigit(ch)){

System.out.println(ch + " is Digit.");

}

else if (Character.isLetter(ch)){

System.out.println(ch + " is a Alphabet.");

}

else {

System.out.println(ch + " is a Special character.");

}

}

}

**Q19.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q19 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String days[] = new String[7];

days[0] = "Monday";

days[1] = "Tuesday";

days[2] = "Wednesday";

days[3] = "Thursday";

days[4] = "Friday";

days[5] = "Saturday";

days[6] = "Sunday";

System.out.println("Enter the Day Number: ");

int day = sc.nextInt();

System.out.println(days[day-1]);

}

}

**Q20.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q20 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Day Number: ");

int day = sc.nextInt();

switch (day){

case 1:

System.out.println("Monday");

break;

case 2:

System.out.println("Tuesday");

break;

case 3:

System.out.println("Wednesday");

break;

case 4:

System.out.println("Thursday");

break;

case 5:

System.out.println("Friday");

break;

case 6:

System.out.println("Saturday");

break;

case 7:

System.out.println("Sunday");

break;

default:

System.out.println("Invalid Credentials");

}

}

}

**Q21.**

package com.msubaroda.shashank.lab3;

public class Lab1Q21 {

public static void main(String[] args) {

System.out.println("Hello, World ");

System.out.println("Hello, Java");

}

}

**Q22.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q22 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

char ch1 = sc.next().charAt(0);

char ch2 = sc.next().charAt(0);

// java add the ASCII value of the characters

System.out.println(ch1 + ch2);

}

}

**Q23.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q23 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the age: ");

int age = sc.nextInt();

if (age < 19){

System.out.println("Sorry, U are not Eligible. ");

}

else {

System.out.println("U are Eligible for voting.");

}

}

}

**Q24.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q24 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the First Number: ");

int num1 = sc.nextInt();

System.out.println("Enter the second Number: ");

int num2 = sc.nextInt();

int temp;

temp = num1;

num1 = num2;

num2 = temp;

System.out.println("The first variable is: " + num1);

System.out.println("The second variable is: " + num2);

}

}

**Q25.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q25 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the First Number: ");

int num1 = sc.nextInt();

System.out.println("Enter the second Number: ");

int num2 = sc.nextInt();

num1 = num1 + num2;

num2 = num1 - num2;

num1 = num1 - num2;

System.out.println("The first variable is: " + num1);

System.out.println("The second variable is: " + num2);

}

}

**Q26.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q26 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the First Number: ");

int num1 = sc.nextInt();

System.out.println("Enter the second Number: ");

int num2 = sc.nextInt();

num1 = num1 \* num2;

num2 = num1 / num2;

num1 = num1 / num2;

System.out.println("The first variable is: " + num1);

System.out.println("The second variable is: " + num2);

}

}

**Q27.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q27 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the base number: ");

int base = sc.nextInt();

System.out.println("Enter the power: ");

int pow = sc.nextInt();

int result = 1;

for (int i = 0; i<pow; i++){

result \*= base;

}

System.out.println("The output is: " + result);

}

}

**Q28.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q28 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Number1: ");

int num1 = sc.nextInt();

System.out.println("Enter the number2: ");

int num2 = sc.nextInt();

String result = (num1 > num2)?"Number 1 is Greater than Number 2":"Number 2 is Greater than Number 1";

System.out.println(result);

}

}

**Q29.**

package com.msubaroda.shashank.lab3;

import java.util.Scanner;

public class Lab1Q29 {

public static void main(String[] args) {

//Taking the user-input

Scanner sc = new Scanner(System.in);

System.out.println("Enter Number 1: ");

int num1 = sc.nextInt();

System.out.println("Enter Number 2: ");

int num2 = sc.nextInt();

System.out.println("Enter Number 3: ");

int num3 = sc.nextInt();

System.out.println(num1);

System.out.println(num2);

System.out.println(num3);

}

}

**Q30.**

package com.msubaroda.shashank.lab3;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

/\* Name of the class has to be "Main" only if the class is public. \*/

class Lab1Q30 {

public static void main (String[] args) throws java.lang.Exception

{

int i = 12345;

float f = 90.09f;

System.out.println("f:" +f);

}

}