Lab work:

Q1-

**package** CURIE;

**public** **class** add {

**public** **static** **void** main(String[] args) {

System.*out*.println("Enter two numbers of your choice");

**int** i= 50;

**int** j = 150;

System.*out*.println(i + " " + j);

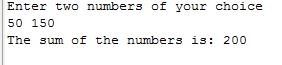
**int** sum = i + j;

System.*out*.println("The sum of the numbers is: " + sum);

}

}

Output:



Q2-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** integer {

**public** **static** **void** main(String[] args) {

Scanner reader = **new** Scanner(System.*in*);

System.*out*.print("Enter a number: ");

**int** number = reader.nextInt();

System.*out*.println("The number entered is: " + number);

}

}

Output:



Q3-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** multipication {

**public** **static** **void** main(String[] args) {

Scanner scan=**new** Scanner(System.*in*);

System.*out*.println("Enter value for i:");

**int** i=scan.nextInt();

System.*out*.println("Enter value for j:");

**int** j=scan.nextInt();

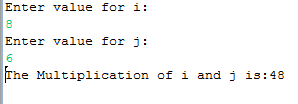
**int** mult=i\*j;

System.*out*.println("The Multiplication of i and j is:"+mult);

}

}

Output:



Q5-

**package** CURIE;

**public** **class** find\_ASCII\_value {

**public** **static** **void** main(String[] args) {

**char** letter = 'a';

**int** ascii = letter;

**int** castAscii = (**int**) letter;

System.*out*.println("The ASCII value of " + letter + " is: " + ascii);

System.*out*.println("The ASCII value of " + letter + " is: " + castAscii);

}

}

Output:



Q6-

**package** CURIE;

**public** **class** quotient\_and\_remainder {

**public** **static** **void** main(String[] args) {

**int** dividend = 20, divisor = 5;

**int** quotient = dividend / divisor;

**int** remainder = dividend % divisor;

System.*out*.println("Quotient = " + quotient);

System.*out*.println("Remainder = " + remainder);

}

}

Output:





**package** CURIE;

**import** java.util.Scanner;

**public** **class** odd\_or\_even {

**public** **static** **void** main(String[] args) {

**int** num;

System.*out*.println("Enter an Integer number:");

Scanner input = **new** Scanner(System.*in*);

num = input.nextInt();

**if** ( num % 2 == 0 )

System.*out*.println("Number is even");

**else**

System.*out*.println("Number is odd");

}

}

Output:



Q7-

**package** CURIE;

**public** **class** check\_character\_vowel\_or\_not {

**public** **static** **void** main(String[] args) {

**char** ch = 'b';

**if**(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' )

System.*out*.println(ch + " is vowel");

**else**

System.*out*.println(ch + " is consonant");

}

}

Output:



Q8-

**package** CURIE;

**public** **class** largest\_three\_nos {

**public** **static** **void** main(String[] args) {

**double** n1 = -2.5, n2 = 5.5, n3 = 7.5;

**if**( n1 >= n2 && n1 >= n3)

System.*out*.println(n1 + " is the largest number.");

**else** **if** (n2 >= n1 && n2 >= n3)

System.*out*.println(n2 + " is the largest number.");

**else**

System.*out*.println(n3 + " is the largest number.");

}

}

Output:



Q9-

**package** CURIE;

**public** **class** swap\_two\_nos {

**public** **static** **void** main(String[] args) {

**float** f = 3.50f, s = 6.50f;

System.*out*.println("Before swaping");

System.*out*.println("First number = " + f);

System.*out*.println("Second number = " + s);

**float** temporary = f;

f = s;

s = temporary;

System.*out*.println("After swaping");

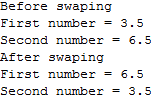
System.*out*.println("First number = " + f);

System.*out*.println("Second number = " + s);

}

}

Output:



Q10-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** check\_given\_no\_even\_or\_odd {

**public** **static** **void** main(String[] args) {

Scanner reader = **new** Scanner(System.*in*);

System.*out*.print("Enter a number: ");

**int** num = reader.nextInt();

**if**(num % 2 == 0)

System.*out*.println(num + " is even");

**else**

System.*out*.println(num + " is odd");

}

}

Output:



Q11-

**package** CURIE;

**public** **class** nested\_loop {

**public** **static** **void** main(String[] args) {

**for**(**int** i=1;i<=5;i++){

**for**(**int** j=1;j<=4;j++){

System.*out*.println(i+" "+j);

}

}

}

}

Output:



Q12-



**package** CURIE;

**public** **class** pyramid {

**public** **static** **void** main(String[] args) {

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

**for**(**int** j=1;j<=i;j++){

System.*out*.print("\* ");

}

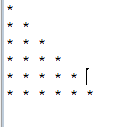
System.*out*.println();

}

}

}

Output:





**package** CURIE;

**public** **class** reverse\_pyramid {

**public** **static** **void** main(String[] args) {

**int** term=6;

**for**(**int** i=1;i<=term;i++)

{

**for**(**int** j=term;j>=i;j--)

{

System.*out*.print("\* ");

}

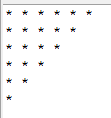
System.*out*.println();

}

}

}

Output:





**package** CURIE;

**import** java.util.Scanner;

**public** **class** floyd\_triangle {

**public** **static** **void** main(String[] args) {

**int** rows, num = 1, counter, j;

Scanner input = **new** Scanner(System.*in*);

System.*out*.println("Enter the number of rows for floyd'striangle:");

rows = input.nextInt();

System.*out*.println("Floyd's triangle");

System.*out*.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

**for** ( counter = 1 ; counter <= rows ; counter++ )

{

**for** ( j = 1 ; j <= counter ; j++ )

{

System.*out*.print(num+" ");

num++;

}

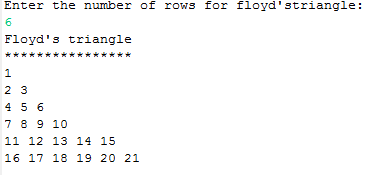
System.*out*.println();

}

}

}

Output:



Q13-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** while\_loop {

**public** **static** **void** main(String[] args) {

**int** num, sum = 0;

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter any integer Value below 10: ");

num = sc.nextInt();

**while** (num <= 10) {

sum = sum + num;

num++;

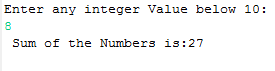
}

System.*out*.println(" Sum of the Numbers is:"+sum);

}

}

Output:



Q14-

**package** CURIE;

**public** **class** do\_while\_loop {

**public** **static** **void** main(String[] args) {

**int** x = 2;

**do** {

System.*out*.print("value of x : " + x );

x++;

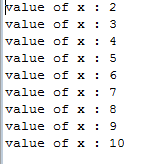
System.*out*.print("\n");

}**while**( x < 11 );

}

}

Output:



Q15-

**package** CURIE;

**public** **class** switch\_case {

**public** **static** **void** main(String[] args) {

**int** ch = 2;

**switch**(ch){

**case** 1:

{

System.*out*.println("java");

**break**;

}

**case** 2:{

System.*out*.println("programs");

**break**;

}

**default**:{

System.*out*.println("Not Listed");

}

}

}

}

Output:



Q16-

**package** CURIE;

**public** **class** nested\_switch\_case {

**public** **static** **void** main(String[] args) {

**int** tech = 2;

**int** course = 1;

**switch**(tech){

**case** 1:

System.*out*.println("python");

**break**;

**case** 2:

**switch**(course){

**case** 1:

System.*out*.println("Java");

**break**;

**case** 2:

System.*out*.println("advance java");

}

}

}

}

Output:



Q17-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** area\_of\_rectangle {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.*in*);

System.*out*.println("Enter the length of the Rectangle:");

**double** length = scanner.nextDouble();

System.*out*.println("Enter the width of the Rectangle:");

**double** width = scanner.nextDouble();

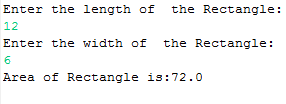
**double** area = length\*width;

System.*out*.println("Area of Rectangle is:"+area);

}

}

Output:



Q18-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** area\_of\_square {

**public** **static** **void** main(String[] args) {

System.*out*.println("Enter Side of the Square:");

Scanner scanner = **new** Scanner(System.*in*);

**double** side = scanner.nextDouble();

**double** area = side\*side;

System.*out*.println("Area of Square is: "+area);

}

}

Output:



Q19-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** area\_of\_triangle {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.*in*);

System.*out*.println("Enter the width of the Triangle:");

**double** base = scanner.nextDouble();

System.*out*.println("Enter the height of the Triangle:");

**double** height = scanner.nextDouble();

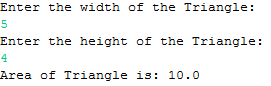
**double** area = (base\* height)/2;

System.*out*.println("Area of Triangle is: " + area);

}

}

Output:



Q20-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** area\_of\_circle {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.*in*);

System.*out*.print("Enter the radius: ");

**double** radius = scanner.nextDouble();

**double** area = Math.*PI* \* (radius \* radius);

System.*out*.println("The area of circle is: " + area);

**double** circumference= Math.*PI* \* 2\*radius;

System.*out*.println( "The circumference of the circle is:"+circumference) ;

}

}

Output:



Q21-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** reverse\_a\_number {

**public** **static** **void** main(String[] args) {

**int** number=0;

**int** reverse\_number =0;

System.*out*.println("Input number a number of your choice : ");

Scanner in = **new** Scanner(System.*in*);

number = in.nextInt();

**while**( number != 0 )

{

reverse\_number = reverse\_number \* 10;

reverse\_number = reverse\_number + number%10;

number = number/10;

}

System.*out*.println("Reverse of input number is: "+reverse\_number);

}

}

Output:



Q22-

**package** CURIE;

**public** **class** display\_prime\_numbers {

**public** **static** **void** main(String[] args) {

**int** i =0;

**int** num =0;

String primeNumbers = "";

**for** (i = 10; i <= 90; i++)

{

**int** counter=0;

**for**(num =i; num>=1; num--)

{

**if**(i%num==0)

{

counter = counter + 1;

}

}

**if** (counter ==2)

{

primeNumbers = primeNumbers + i + " ";

}

}

System.*out*.println("Prime numbers from 10 to 90 are :");

System.*out*.println(primeNumbers);

}

}

Output:



Q23-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** number\_is\_prime\_or\_not {

**public** **static** **void** main(String[] args) {

**int** temp;

**boolean** isPrime=**true**;

Scanner scan= **new** Scanner(System.*in*);

System.*out*.println("Enter any number:");

**int** num=scan.nextInt();

scan.close();

**for**(**int** i=2;i<=num/2;i++)

{

temp=num%i;

**if**(temp==0)

{

isPrime=**false**;

**break**;

}

}

**if**(isPrime)

System.*out*.println(num + " is a Prime Number");

**else**

System.*out*.println(num + " is not a Prime Number");

}

}

Output:



Q24-

**package** CURIE;

**public** **class** sum\_elements\_of\_an\_array {

**public** **static** **void** main(String[] args) {

**int**[] i = {10, 20, 30, 40, 50, 60};

**int** sum = 0;

**for**( **int** num : i) {

sum = sum+num;

}

System.*out*.println("Sum of array elements is:"+sum);

}

}

Output:



Q25-

**package** CURIE;

**import** java.util.Scanner;

**public** **class** user\_input\_array {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.*in*);

**int**[] array = **new** **int**[5];

**int** sum = 0;

System.*out*.println("Enter the elements:");

**for** (**int** i=0; i<5; i++)

{

array[i] = scanner.nextInt();

}

**for**( **int** num : array) {

sum = sum+num;

}

System.*out*.println("Sum of array elements is:"+sum);

}

}

Output:

