Ex-1

package java\_all\_practicles;  
import java.util.Scanner;  
  
  
public class Area\_of\_circle {  
  
 public static void main(String[] args) {  
 float r,a;  
 Scanner ht=new Scanner(System.*in*);  
   
 System.*out*.println("Enter the Radius");  
 r=ht.nextInt();  
 a=(float)(3.142)\*r\*r;  
 System.*out*.println("The value of area of circle is : " +a);  
   
 }  
  
}

ex 2

package java\_all\_practicles;  
import java.util.Scanner;  
  
  
public class Arithmatic\_operations {  
  
 public static void main(String[] args) {  
 int first,sec,add,sub,mul;  
 float div;  
 Scanner ar=new Scanner(System.*in*);  
 System.*out*.println("Enter Two Numbers");  
 first=ar.nextInt();  
 sec=ar.nextInt();  
 add=first+sec;  
 sub=first-sec;  
 mul=first\*sec;  
 div=(float) first/sec;  
 System.*out*.println("The addition is :"+add );  
 System.*out*.println("The subtraction is :"+sub );  
 System.*out*.println("The multiplication is :"+mul );  
 System.*out*.println("The division is :" +div );  
   
   
  
 }

ex 3

package java\_all\_practicles;  
  
public class Array   
{  
   
 public static void main(String[] args)   
 {  
 int [] a= {1,-3,4,8,-1,9,5,-7};  
 System.*out*.println("The array elements are:");  
 for (int i=0;i<a.length;i++)  
 {  
 System.*out*.print(a[i] + " ");  
 }  
 }  
  
}

ex 4

package java\_all\_practicles;  
import java.util.Scanner;  
  
class Employee  
{  
 int id;  
 String name;  
 float Salary;  
}  
  
class Basic\_Employee   
{  
 public static void main(String[] args)   
 {  
 Scanner sc=new Scanner(System.*in*);  
 System.*out*.println("Enter How many employees:");  
 int k= sc.nextInt();  
   
 Employee emp[] = new Employee[k];  
   
 for (int i=0; i<k; i++)   
 {  
 emp[i]= new Employee ();  
 System.*out*.println("\nEnter "+ (i+1) +" Employee Data");  
 System.*out*.print("Enter employee id: ");  
 emp[i].id = sc.nextInt ();   
 System.*out*.print("Enter employee name: ");  
 emp [i].name = sc.next();  
 System.*out*.print("Enter employee salary: ");   
 emp [i].Salary = sc.nextFloat();  
 }  
  
 System.*out*.println("\n\n== All employee details are==");  
  
 for (int i = 0; i <k; i++)   
 {  
 System.*out*.println("\nEmployee id: " + emp[i].id);  
 System.*out*.println("Employee name: " + emp[i].name);  
 System.*out*.println("Employee salary: " + emp[i].Salary);  
 }  
 }  
}

ex 5

package java\_all\_practicles;  
import java.io.\*;  
  
public class Exception\_handling   
{   
   
 public static void main(String[] args)  
 {  
 try {  
 int number[] =new int[10];  
 number[10] = 30/0;  
 }  
 catch (ArithmeticException e) {  
 System.*out*.println("Zero can not divide by a number");  
 }  
 catch (ArrayIndexOutOfBoundsException e) {  
 System.*out*.println("Index out of size of the array");  
 }  
 }  
}

ex 6

package java\_all\_practicles;  
  
public class Fibonacci   
{  
 public static void main(String[] args)   
 {  
 int count = 10, num1 = 0, num2 = 1;  
  
 System.*out*.print("Fibonacci Series of "+count+" numbers:\n");  
  
 for (int i = 1; i <= count; i++)  
 {  
 System.*out*.print (num1+" ");  
 int sumOfPrevTwo =num1 + num2;   
 num1= num2;  
  
 num2 =sumOfPrevTwo;  
 }  
 }  
}

ex 7

package java\_all\_practicles;  
  
 class Car   
 {   
 Car()  
 {  
 System.*out*.println("class: car");  
 }  
 public void vehicletype()  
 {  
 System.*out*.println("Type: HUAYARA");  
 }  
 }   
 class PAGANI extends Car  
 {  
 public void Brand()  
 {  
 System.*out*.println("brand:PAGANI");  
 }  
 public void speed()  
 {  
 System.*out*.print("speed: 383km/hr");  
 }  
 }  
 class PAGANI\_HUAYRA extends PAGANI  
 {  
 public void Brand()  
 {  
 System.*out*.println("Brand : PAGANI HUAYRA");  
 }  
   
 public void speed()  
 {  
 System.*out*.println("Speed : 238 mph");  
 }  
 }  
   
 public class Mul\_inherentence {   
 public static void main(String[] args)   
 {  
 PAGANI\_HUAYRA ob= new PAGANI\_HUAYRA();  
 ob.speed();  
 ob.Brand();  
 ob.vehicletype();  
  
 }  
  
 }

ex 8

package java\_all\_practicles;  
import java.util.Scanner;   
  
public class PrimeNo  
{  
 private static boolean *prime*;  
 public static void main(String[] args)   
 {  
 Scanner sc = new Scanner (System.*in*);  
 System.*out*.print("Enter the value: ");  
 int n = sc.nextInt();  
 for (int i=2; i<=n; i++)   
 {   
 *prime*=true;   
 for(int j=2; j<i; j++)  
 {  
 if (i%j==0)  
 {  
 *prime*=false;  
 break;  
 }  
 }  
 if(*prime*)  
 {  
 System.*out*.println(i);  
 }  
 }  
 }  
}

ex 9

package java\_all\_practicles;  
import java.util.Scanner;  
  
public class String\_practice {  
   
 public static void main(String[] args)  
 {  
 Scanner Str= new Scanner(System.*in*);  
 System.*out*.println("Enter the string:");  
 String Str1= Str.next();  
   
 System.*out*.println(Str1);  
 System.*out*.println("The length of the string is:"+ Str1.length());  
   
 StringBuffer obj1 = new StringBuffer(Str1);  
 obj1.reverse();  
 System.*out*.println("The reverse of the string is " + obj1);  
   
 StringBuilder obj2 = new StringBuilder(Str1);  
 obj2.reverse();  
 String rev = obj2.toString();  
   
 if(Str1.equals(rev)){  
 System.*out*.println("String is Palandrome");  
 }  
 else {  
 System.*out*.println("String is not a Palandrome");  
 }  
 }  
}

ex 10

package java\_all\_practicles;  
import java.util.Scanner;  
class studentdetails  
{  
 int rn;  
 String name,cl;  
 Scanner sc=new Scanner(System.*in*);  
 void input()  
 {  
 System.*out*.println("Enter the roll no : ");  
 rn=sc.nextInt();  
   
 System.*out*.println("Enter the name : ");  
 name=sc.next();  
   
 System.*out*.println("The class of the student : ");  
 cl=sc.next();  
 }   
}  
class Student extends studentdetails  
{  
 void display()  
 {  
 System.*out*.println("The roll no is :" +rn);  
 System.*out*.println("The name of student is :" +name );  
 System.*out*.println("The class of student is :" +cl);   
 }  
   
 public static void main(String[] args)  
 {  
 Student s1= new Student();  
 s1.input();  
 s1.display();  
 }   
 }

ex 11

package java\_all\_practicles;  
  
public class VowelCount   
{  
 public static void main(String[] args)   
 {  
 String Str = "Count the vowels from this sentence.";  
 System.*out*.println("Your string is: " + Str);  
 Str = Str.toLowerCase();  
 int length= Str.length();  
 int count=0;  
 char ch;  
   
 for(int i=0; i<length; i++)   
 {  
 ch=Str.charAt(i);  
 if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')  
 {  
 count++;  
 }  
 }  
 System.*out*.print("No. of vowels: " + count);  
 }  
  
}