Q1 generic 1

public class ex{

Public void printArray(String[] s){

For(int i=0;i<s.length;i++){

System.out.println(s[i]);

}

}

Public void printArray(Integer[] s){

For(int i=0;i<s.length;i++){

System.out.println(s[i]);

}

}

Public static void main(String args[]){

Ex e = new ex();

String []s1 = {“john”,”john”};

e.printArray(s1);

Integer[]i={1,2,3,4};

e.printArray(i);

}

}

Q2 generic 2

Public class ex1{

Public <E> void printArray(E []s){

For(int i=0;i<s.length;i++){

System.out.println(s[i]);

}

}

Public static void main(String args[]){

Ex1 e = new ex1();

String []s1 = {“john”,”john”};

e.<String>printArray(s1);

Integer[]i={1,2,3,4};

e.<Integer>printArray(i);

}

}

Q3 generic 3

Public class ex2{

Public void printArray(String[] s){

For(int i=0;i<s.length;i++){

System.out.println(s[i]);

}

}

Public static void main(String args[]){

Ex2 e = new ex2();

String []s1 = {“john”,”john”};

e.printArray(s1);

//Integer[]i={1,2,3,4};

//e.printArray(i);

}

}

Q4 generic

Public class Main{

Public <E> void printArray(E []s,E key){

For(int i=0;i<s.length;i++){

If(key==s[i]){

System.out.println(“the index of the element is:”+i);

}

}

}

Public static void main(String[] args){

Main m = new Main();

String []s1 = {“john”,”om”};

m.<String>printArray(s1,”Om”);

Integer[]i={1,2,3,4};

m.<Integer>printArray(i,4);

}

}

Q5 generic 5

//generic class

Class MyData{

Integer i;

Public void set(Integer i1){

I=i1;

}

Public Integer get(){

Return (i);

}

}

Public class Example{

Public static void main(String[] args){

MyData m1 = new MyData();

Integer i1 = 3;

M1.set(i1);

M1.get();

}

}

Q6//generic class example

Class MyData <E>{

E i;

Public void set(E i1){

I=i1;

}

Public E get(){

Return (i);

}

}

Public class Example{

Public static void main(String[] args){

MyData<Integer> m1 = new MyData<Integer>();

MyData<String> m2 = new MyData<String>();

String s = “Hello”;

M2.set(s);

System.out.println(m2.get());

Integer i1 = 3;

M1.set(i1);

System.out.println(m1.get());

}

}

Q7

//crate a generic class search array element key

//2nd class create object and call

Public class Search<E>{

Public void printArray(E []s,E key){

For(int i=0;i<s.length;i++){

If(key==s[i]){

System.out.println(“the index of element is:”+i);

}

}

}

Public static void main(String[] args){

Search<Integer> m = new Search<Integer>();

Integer []i = {1,2,3,4};

m.<Integer>printArray(i,4);

Search<String> m1 = new Search<String>();

String []s1 = {“john”,”om”};

M1.<String>printArray(s1,”om”);

}

}