Task 1 &2 using methods.

```
package assignment2;

public class Trainer {


          int ID;
            String name;
            String department;
            String email;

           public int getID() {
                  return ID;
            }
            public void setID(int iD) {
                  ID = iD;
            }
            public String getName() {
                  return name;
            }
            public void setName(String name) {
                  this.name = name;
            }
            public String getDepartment() {
                  return department;
            }
            public void setDepartment(String department) {
                  this.department = department;
            }
            public String getEmail() {
                  return email;
            }
            public void setEmail(String email) {
                  this.email = email;
            }


            public String toString() {
                  return "task1 =" + ID + ", name=" + name + ",
department=" + department + ", email=" + email + "]";
            }

            }
```

```
package assignment2;

import java.util.ArrayList;


public class TrainerDetails {

	public static void main(String[] args)
	{
		Trainer trainer1 = new Trainer();
		trainer1.setID(1);
		trainer1.setName("mukesh");
		trainer1.setDepartment("Testing");
		trainer1.setEmail("mukesh@gmail.com");

		Trainer trainer2 = new Trainer();
		trainer2.setID(2);
		trainer2.setName("hitesh");
		trainer2.setDepartment("Dev");
		trainer2.setEmail("hitesh@gmail.com");

		Trainer trainer3 = new Trainer();
		trainer3.setID(3);
		trainer3.setName("mukesh");
		trainer3.setDepartment("DevOps");
		trainer3.setEmail("mukesh@gmail.com");



  ArrayList<Trainer> arraylist = new ArrayList<Trainer>();

		arraylist.add(trainer1);
		arraylist.add(trainer2);
		arraylist.add(trainer3);

		System.out.println(arraylist);

		}

}
```

Task 1 &2 using constructor.

```
package constructor;

public class Trainerconstructor {


       int ID;
            String name;
            String department;
            String email;

            public Trainerconstructor(int iD, String name, String
department, String email) {
                  super();
                  ID = iD;
                  this.name = name;
                  this.department = department;
                  this.email = email;
            }

            public String toString() {
                  return "Trainerconstructor [ID=" + ID + ", name=" + name
+ ", department=" + department + ", email=" + email
                              + "]";
            }


}
```

```
package constructor;

import java.util.ArrayList;



public class Constructordetails {

      public static void main(String[] args) {

            Trainerconstructor trainer11 = new
Trainerconstructor(1,"mukesh","Testing","mukesh@gmail.com");
            Trainerconstructor trainer21 = new
Trainerconstructor(2,"Hitesh","Dev","mukesh@gmail.com");
            Trainerconstructor trainer31 = new
Trainerconstructor(3,"Mukesh","DevOps","mukesh@gmail.com");

ArrayList<Trainerconstructor> arraylist = new
ArrayList<Trainerconstructor>();

            arraylist.add(trainer11);
            arraylist.add(trainer21);
            arraylist.add(trainer31);

            System.out.println(arraylist);
}

}
```

Task 3

```
package assignment2;

public class Student {

	String name;
	String email;
	String phone;
	String address;
	String Status;

	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public String getEmail() {
		return email;
	}
	public void setEmail(String email) {
		this.email = email;
	}
	public String getPhone() {
		return phone;
	}
	public void setPhone(String phone) {
		this.phone = phone;
	}
	public String getAddress() {
		return address;
	}
	public void setAddress(String address) {
		this.address = address;
	}
	public String getStatus() {
		return Status;
	}
	public void setStatus(String status) {
		Status = status;
	}


	public String toString() {
		return "Student [name=" + name + ", email=" + email + ",
phone=" + phone + ", address=" + address + ", Status="
				+ Status + "]";
	}



}
```

```
package assignment2;

import java.util.ArrayList;

import java.util.List;
import java.util.Scanner;

public class StoreStudent {

	public static void main(String[] args) {

		Scanner sc= new Scanner(System.in);

		System.out.println("Please enter number of students");
		int studentnumber= sc.nextInt();

		Scanner sc1 = new Scanner(System.in);
		List<Student> list = new ArrayList<Student>();



		for(int i=0;i<studentnumber;i++)
		{
			Student student= new Student();

			System.out.println("Please enter name");
			student.setName(sc1.nextLine());

			System.out.println("Please enter email");
			student.setEmail(sc1.nextLine());

			System.out.println("Please enter phone");
			student.setPhone(sc1.nextLine());

			System.out.println("Please enter address");
			student.setAddress(sc1.nextLine());

			System.out.println("Please enter status");
			student.setStatus(sc1.nextLine());

			list.add(student);
		}

		System.out.println(list);

		Scanner sc2= new Scanner(System.in);
		System.out.println("Please enter which student are you
looking for");

		System.out.println(list.get(sc.nextInt()));
	}

}
```