OOPJ Notes Day-5 (Date: 02/05/2023)

Session-2 (4:00PM to 6:00PM)

Eclipse introduction

- Kindly use seperrate workspace for your entire OOPJ Module
- make use of packages where ever applicable.
- Apply the Access Modifier whenever needed.
- See the source of EmployeeMgtSystem

implementing toString() method

• It is method of Object class and it can be overridded into any class

```
public class Employee
{
      private int EmpId;
      private String EmpName;
      private long MobileNo;
       private String Address;
       private String EmailId;
       public Employee() {
             super();
       public Employee(int empId, String empName, long mobileNo, String address, String emailId) {
               super();
              EmpId = empId;
              EmpName = empName;
              MobileNo = mobileNo;
              Address = address;
              EmailId = emailId;
       public int getEmpId() {
            return EmpId;
       public void setEmpId(int empId) {
             EmpId = empId;
       public String getEmpName() {
          return EmpName;
       public void setEmpName(String empName) {
             EmpName = empName;
       public long getMobileNo() {
          return MobileNo;
       public void setMobileNo(long mobileNo) {
             MobileNo = mobileNo;
       public String getAddress() {
             return Address;
       public void setAddress(String address) {
             Address = address;
       public String getEmailId() {
             return EmailId;
       public void setEmailId(String emailId) {
             EmailId = emailId;
       @Override
```

Array concept

- It is used to store the homogenous type of elements.
- by using array we get contigous memory allocation. which help us to access the data fastly.

Array using Java

NegativeArraySizeException

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ArraayIndexOutOfBoundsException

```
public class ArrayDemo {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int arr[|=new int[5]; //Decalartion of Array of int type with fixed size of 5 elements
    for(int i=0;i<arr.length;i++)
    {
        System.out.println("Enter a Int value");
        arr[i]=sc.nextInt();
    }
    System.out.print("Array is: ");
    for(int i=0;i<6;i++)
    {
        try
        {
            System.out.print(arr[i]+" ");
        }
        catch(Exception ex)
        {
            System.out.println("Exception cathed"+ex.getMessage());
        }
    }
    System.out.println("Program executed Successfully");
}</pre>
```

foreach loop

Major and minor elements of oops

- 1. Major Elements
 - 1. Abstraction
 - 2. Encapsulation
 - 3. Modularaty (Polymorphism)
 - 4. Hierarchy (Inheritance and Association)

Association

- 1. Composition: Kindly do study on that
- 2. Aggregation: Kindly do study on that

Passing array as a argument Creating array of primitive values/reference/instances java.util.Arrays

Multi Dimensional array

Jagged/Ragged array

Enum

Writing menu driven code using Enum

Major and minor elements of oops