



# GITAM

Deemed to be University  
(Estd. u/s 3 of UGC Act 1956)

BENGALURU - 562 163

## Mid Term Theory / Practical Examination : MAIN ANSWER BOOKLET

Name : B. Vikas Reddy Roll No. BV21CSE4030035 Program & Branch : CSE-AIML

Semester/Trimester: IVth Section: CSE-AIML Subject: Dops with Java

Invigilator Signature [Signature] Date of Examination : 12/04/23 No. of Additional .....

(a) Write a program to print the even and odd numbers of an array.

```
class Main
```

```
{
```

```
    public static void main (String a[])
```

```
    {
```

```
        int a[10];
```

```
        a = new int {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
```

```
        System.out.println("The even numbers are");
```

```
        for (int i = 0; i < 10; i++)
```

```
        {
```

```
            if (a[i] % 2 == 0)
```

```
            {
```

```
                System.out.println(a[i]);
```

```
            }
```

```
        }
```

```
        System.out.println("The odd numbers are");
```

```
        for (int i = 0; i < 10; i++)
```

```
        {
```

```
            if (a[i] % 2 != 0)
```

```
            {
```

```
                System.out.println(a[i]);
```

```
            }
```

```
        }
```

# ① Difference between ArrayList and Vector.

ArrayList.

Vector.

- ① An array list is kind of array but it has separate package `java.util`.
- ② A vector can store objects it is from the separate package `java.util`.
- ③ ArrayList is not synchronised.
- ④ ArrayList can store objects of multiple data types in a single array list.
- ⑤ ArrayList uses `iterate` method to traverse list.
- ⑥ ArrayList is not a `Serializable` class so it has no `serialization` operations.
- ⑦ ArrayList has only few methods.
- ⑧ ArrayList has many methods.
- ⑨ ArrayList is a `Serializable` class so it has `serialization` operations.
- ⑩ ArrayList uses `Iterator` to traverse list.
- ⑪ ArrayList is a `Serializable` class so it has `serialization` operations.
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