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Sessional: Assignment

Subject : Data Structures & Algorithms

Teacher : Sir Muhammad Adil

Program : BC (CS)

Tsak# 1

```
Package com.codewithwasef;
```

```
Public class main {  
    Public static void main(string[] args) {  
        Int [] name_of_list = {1,2,3,4};  
        For {int value : name_of_list) {  
            System.out.println(value);  
        }  
    }  
}
```

OUT-PUT

```
/Library /java/javaVirtua IMachines/jdk-13.jdk/contents/H
```

```
1
```

```
2
```

```
3
```

```
4
```

```
Process finished with exit code 0
```

```
Package com.codewithwasef;

Public class main {

    Public static void main(string[] args) {

        int [] a = {1,2,3,4};

        int b = 0;

        while {b < a.length) {

            system.out.println(a[b]);

            b++;

        }

    }

}
```

OUT-PUT

/Library /java/javaVirtualMachines/jdk-13.jdk/contents/H

1

2

3

4

Process finished with exit code 0

```
import java.util.Arrays;

Public class main {

    Public static void main(string[] args) {

        int [ ] a = {1,2,3,4};

        system.out.println(Arrays.toString(a));

        a = new int [ ] {1,2,3,4,5};

        system.out.println(Arrays.toString(a));

    }

}
```

OUT-PUT

/Library /java/javaVirtua IMachines/jdk-13.jdk/contents/H

[1, 2, 3, 4]

[1, 2, 3, 4, 5]

Process finished with exit code 0

```
import java.util.Arrays;

Public class main {

    Public static void main(string[] args) {

        int [ ] a = {1,2,3,4};

        system.out.println(Arrays.toString(a));

        a = new int [ ] {1, 2, 3};

        system.out.println(Arrays.toString(a));

    }

}
```

OUT-PUT

/Library /java/javaVirtua IMachines/jdk-13.jdk/contents/H

[1, 2, 3, 4]

[1, 2, 3]

Process finished with exit code 0

Tsak# 2

```
Public class main {  
    Public static void main(string[] args) {  
        int [] a = {1,2,3,4};  
        int b = 0;  
        int c =3;  
        boolean d = false;  
        while (b < a.length && !d) {  
            if {a[b] == c) {  
                d = true  
            }  
            else {  
                b++;  
            }  
        }  
        If (d) {  
            System.out.println("search successful");  
        }  
        else {
```

```
System.out.println("search unsuccessful") }
```

OUT-PUT

/Library /java/javaVirtualMachines/jdk-13.jdk/contents/H

Search Successful

Tsak# 3

```
Public class main {  
    Public static void main(string[] args) {  
        int [] a = {1,2,3,4};  
        int b = 0;  
        int c = a.length;  
        int d =3;  
        boolean e = false;  
        while (b < a.length && !e) {  
            int x = ( (b+c)/2);  
            if (d == a[x]) {  
                e = true;  
            }  
        }  
    }  
}
```

```
    }  
    else if (d < a[x]) {  
        b = x-1;  
    }  
    else {  
        b = x+2;  
    }  
}  
  
If (e) {  
    System.out.println("search successful");  
}  
else {  
    System.out.println("search unsuccessful");  
}
```

OUT-PUT

/Library /java/javaVirtualMachines/jdk-13.jdk/contents/H

Search Successful