Isva Programming for Web Applications. 30

CSA.0985, Assingment.03.

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Pate: 1215

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Day: Monday.

Dept

: B. Tech (AI & DS)

Collection and objects:

(2/2)

Single unit of object. collection from work provides many interfaces and classes.

1Bt

Armay 19st .

linked list.

List:

Public class main

Ę

Public static void main (string [], angs)

ş

obj. add ("one);

obj. ada ("Two");

obj. add ("Three");

obj. add (1000);

obj. add (10000);

System. but. printh (" Arrays list:"+ obj);

}

3

```
Armay Pst:
       import jaw util list
        class
         Public static void main (string[], args)
            138 2 integer > number = new amoughist <>();
                  number. add (1);
                  number . odd (s);
                  number.adH (3);
            system. out. println ("List" + number);
          int get number = number get (2);
         system. out. println ("element at index 2:" + get number);
           numbers remove (1),
         system out printle ("list after removal" + number);
           numbers set (1,4);
        system. out println ("Ist after update:" + number);
       system out println (" Iterating through the list:");
    for (int number: number)
           system.out. println (numbers + " ");
          system. out. prinkln(),
```

```
List = [1,9,3]
          elements at indea 2:3
          List after removal :[1,3]
         List after update: [1,4]
         Iterating through the list: 14
Linked list:
        import java util . 18st;
        Proport java. util. linked list;
        class main
           Public static void main (string[] args)
           List < string > numbers = new linked list <>();
              numbers add ("Apple");
              numbers. add ("orange");
             numbers . add ("mange");
         string number = number get (2),
         System. out. prinkln ("Allowed dement" + numbers);
              index = numbers. Index + ("Apple");
        system. out. println ("pos of 2 is" + index);
          numbers set (2, "banana");
       system. out. println ("updated list:" + number);
```

```
numbers. remove ("Grange");
       system. but println ("final list");
            for (string fruit: number);
                 system. out println (fruils);
 Output:
                      element: Mango
            Accessed
            pos of 'apple' is :0
           updated list: [apple, orange, banana]
            final list: apple, banana, grape pineapple.
Vector.
            Import. java. util. Iterator
            import gava util rector
                   main
            class
                 Public static void main (string[ ] angs)
                    vector < string > fruits = new vector < >1);
                      fruits add ("Apple");
                      fruits add ("orange");
                      fruits add ("mango");
```

```
system. out. printin ("vectori" + foruits);
   string element: fruit get (2);
System out printin ( "element at index 2:" element);
    fruits add [index & element, "banana");
 System. out. printh ("vector"; "fourts")
   vector < string : Indianfruits : new vector <>1);
      Indianfruit add All (fruits);
    System out printin ("vector"); + Indianfruits);
      Ilerate < string > Ilerate : indiantmite. Iterators ();
         system. out. println ("vector");
        Iterate < string > Plerate = indian fruits. Pleratel);
          while (nerate tarneat ());
       system. out print In (iterate. next ();)
              system.out. println (",");
```

```
and reverse:
  import Pava util arrays
 import java util collections
 class Main
   Public static void main (string[], ongs)
     first z string : fruits = new linked list <>();
         fauits. add ("Apple");
         fruits add ("orange");
        fruits.add ("Mango");
         fruits add ("Grape");
   system. out printin ("on list"/+ fruits);
   collection . sort (fruits);
  system-out. println ("Rev 18st" + fruilt);
  Collection. sort (fruits);
 System out printin (fruits. collection. reverse order());
 collection. Sort (fruits. collection . reverse order!));
system-out. println ("sort in des order" + fauils);
system out printin ("fruits in the basket");
for (int 1:0; iz fauits - sizel); i++)
      system. out. println (fruits. get(i));
```

Sort

```
stack
Queue
dequous.
Stack:
       import gava util stack;
         Public class fruitstack
             Public static void main (string[], angs)
                 stack / string > fruitslack = new stack <> ();
                 fruit stack push ("Apple");
                 fruit stack push ("Banana");
                  fruitstack. push ("chany");
                system out printin ("stack")
                 while (! fruitstack . (sempty())
                   system. out println (fruitsläck-pop());
            7
```

Stack: Chorry Banana Apple.

```
system out println ("fruits in the basket (in reverse order)
         for (int i= fruits. size()-1; i>=0; i++)
           system out printin (fruits get (i));
Output:
      on list: [apple, orange, mango, grape].
    sort list: [apple, viange, mango, grape].
    Rev list: [orange, mango, grape, apple].
        asc order: [apple, grape, mango, orange].
soit in des orden: [orange, mango, grape, apple].
 fruits in the basket -> mange
                                 mango
                                 Grape
                                  Apple.
```

```
Dequeue:
        împort java util Annay dequeue;
        împort java. util . dequeue;
        Public class fruits dequeue
             Public static void main (string[] angs)
             ş
                dequeue < string > fruit dequeue: new arraydogueuec>1)
                   fruit dequeue. add fruit ("Mango");
                   Init dequeue add last (" reach"):
                   fruit dequeue. add fforst ("kiu");
              system out printin ("dequeue:");
             while (! fruit dequeue. is empty ())
                 System. out. printin (fruit dequeue. polifirsti)
             }
```

Output:

dequeue: kiwi Mongo Peach. יייל אווווי 4 מ כמי

It is an interface include methods of.

Emport gava. util. map; Proport gava. util. Hanhmap; class main g

Public static void (string[] ange)

map: Interger, string > fruits : new map <>();

fruits 2 new Washmapl);

draits - put (1, "Apple")

fruits. put (2; branger).

system out printin ("truits": emptyset ().

boolean valez lonvite remove (2, orange").

system. out. printin l'Avail in basket:": value