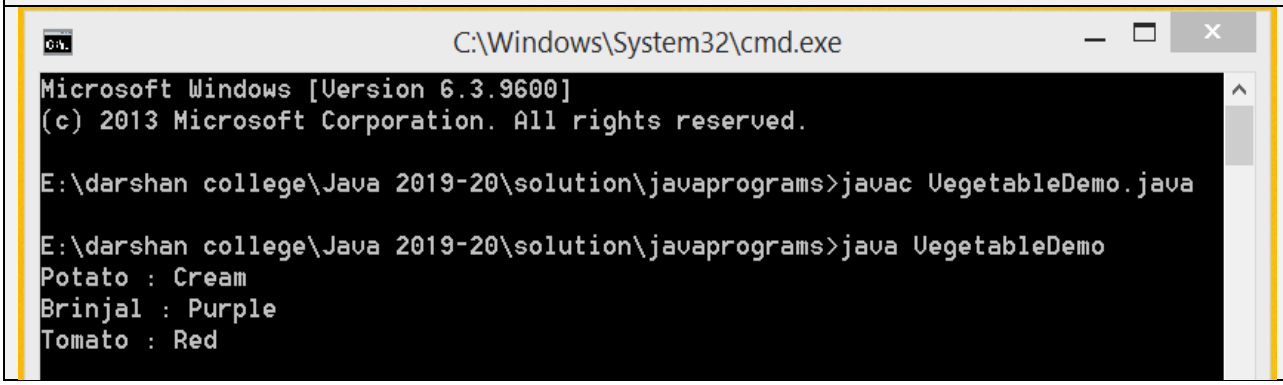
```
47                      System.out.println(p.toString());
48                      System.out.println(b.toString());
49                      System.out.println(t.toString());
50              }
51      }
```

Assignment 1: Output



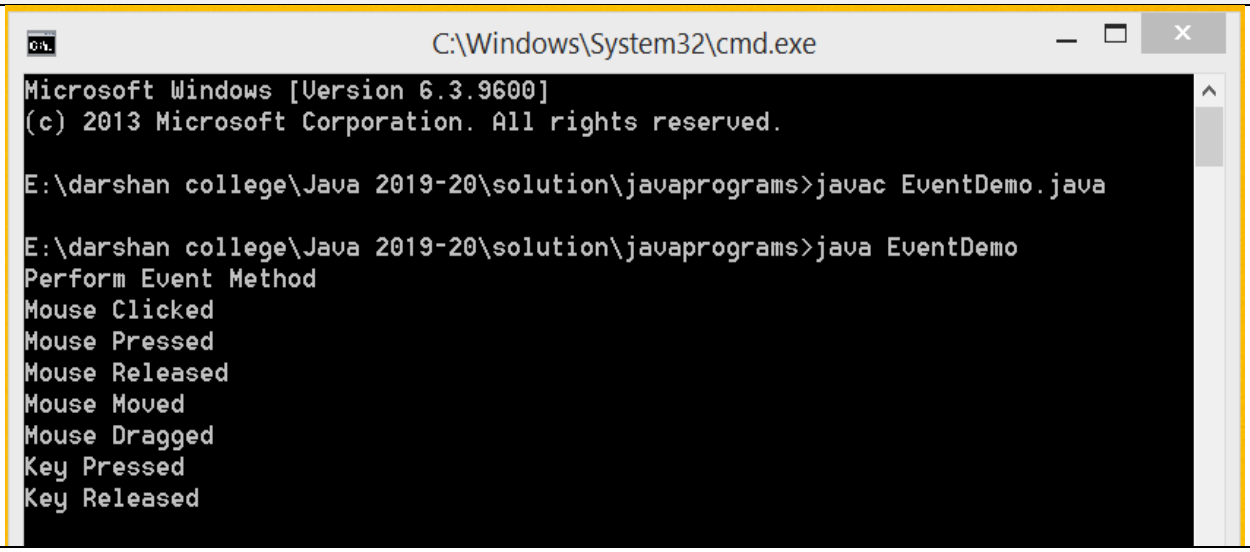
Assignment 2: Create interface EventListener with performEvent() method. Create MouseListener interface which inherits EventListener along with mouseClicked(), mousePressed(), mouseReleased(), mouseMoved(), mouseDragged() methods. Also create KeyListener interface which inherits EventListener along with keyPressed(), keyReleased() methods. WAP to create EventDemo class which implements MouseListener and KeyListener and demonstrate all the methods of the interfaces.

Assignment 2: Code

```
1       interface EventListener{
2               //performEvent Method
3               void performEvent();
4       }
5       interface MouseListener extends EventListener{
6               //mouseClicked Method
7               void mouseClicked();
8               //mousePressed Method
9               void mousePressed();
10              //mouseReleased Method
11              void mouseReleased();
12              //mouseMoved Method
13              void mouseMoved();
14              //mouseDragged Method
15              void mouseDragged();
16      }
17
18      interface KeyListener extends EventListener{
19              //keyPressed Method
20              void keyPressed();
21              //keyReleased Method
22              void keyReleased();
23      }
24
25      //Main Class
```

```
26  class EventDemo implements MouseListener, KeyListener{
27          //performEvent Method
28          public void performEvent(){
29                  System.out.println("Perform Event Method");
30          }
31          //mouseClicked Method
32          public void mouseClicked(){
33                  System.out.println("Mouse Clicked");
34          }
35          //mousePressed Method
36          public void mousePressed(){
37                  System.out.println("Mouse Pressed");
38          }
39          //mouseReleased Method
40          public void mouseReleased(){
41                  System.out.println("Mouse Released");
42          }
43          //mouseMoved Method
44          public void mouseMoved(){
45                  System.out.println("Mouse Moved");
46          }
47          //mouseDragged Method
48          public void mouseDragged(){
49                  System.out.println("Mouse Dragged");
50          }
51          //keyPressed Method
52          public void keyPressed(){
53                  System.out.println("Key Pressed");
54          }
55          //keyReleased Method
56          public void keyReleased(){
57                  System.out.println("Key Released");
58          }
59
60          //Main Method
61          public static void main(String[] args) {
62                  EventDemo e = new EventDemo();
63                  e.performEvent();
64                  e.mouseClicked();
65                  e.mousePressed();
66                  e.mouseReleased();
67                  e.mouseMoved();
68                  e.mouseDragged();
69                  e.keyPressed();
70                  e.keyReleased();
71          }
72  }
```

Assignment 2: Output



Assignment 3. The Transport interface declares a deliver () method. The abstract class Animal is the super class of the Tiger, Camel, Deer and Donkey classes. The Transport interface is implemented by the Camel and Donkey classes. Write a test program that initialize an array of four Animal objects. If the object implements the Transport interface, the deliver () method is invoked.

Assignment 3: Code

```
1   interface Transport{
2       void deliver();
3   }
4   abstract class Animal{
5       abstract void display();
6   }
7
8   //Tiger Class
9   class Tiger extends Animal{
10      void display(){
11          System.out.println("Tiger Class");
12      }
13  }
14
15  //Camel Class
16  class Camel extends Animal implements Transport{
17      void display(){
18          System.out.println("Camel Class");
19      }
20      public void deliver(){
21          System.out.println("Camel deliver");
22      }
23  }
24
25  //Deer Class
26  class Deer extends Animal{
27      void display(){
28          System.out.println("Deer Class");
```

```
29          }
30      }
31
32      //Donkey Class
33      class Donkey extends Animal implements Transport{
34          void display(){
35                  System.out.println("Donkey Class");
36          }
37          public void deliver(){
38                  System.out.println("Donkey deliver");
39          }
40      }
41
42      //Main Class
43      class AnimalDemo{
44          public static void main(String[] args) {
45                  Tiger t = new Tiger();
46                  t.display();
47
48                  Camel c = new Camel();
49                  c.display();
50                  c.deliver();
51
52                  Deer d= new Deer();
53                  d.display();
54
55                  Donkey don= new Donkey();
56                  don.display();
57                  don.deliver();
58          }
59      }
```

Assignment 3: Output