## Daily Work Practice: Date - 17/8/2023

## Program:- Perfect square

```
package com.ishwarchavan;
import java.util.Scanner;
public class PerfectSquare {
    Scanner sc = new Scanner(System.in);
                                               //creating scanner object
         Scanner <u>sc</u> = new Scanner(System.in);
System.out.println("Enter a number: ");
                                               //taking input from user
         int number = sc.nextInt();
         if(root == (int)root) {
             System.out.println(number + " is a Perfect Square.");
                                                         //otherwise it
             System.out.println(number + " is Not a Perfect Square.");
         }
    }
}
```

## Program: Delete The Element From Linked List At Given Position

```
package com.ishwarchavan;
import java.lang.*;
Node head;
int size = 0;
class Node{
                      // Node Class created
   int data;
   Node next;
   Node(int x)
                            // parameterized constructor
      data = x;
      next = null;
Node new node = new Node(data);
   new_node.data = data;
    new node.next = head;
    head = new node;
   size++;
public void deletePosition(int pos) {      // delete position functon is created
    Node temp = head;
   Node prevNode = null;
    if(pos < 1 || pos > size) {
                                     // if true then excuted below statement
      System.out.println("Invalid\n");
       return;
    }
```

```
if(pos == 1) {
                             // delete the 1st node
     head = head.next;
      System.out.println("Deleted: " + temp.data);
      return;
                         //return the value
   }
   while (--pos > 0)
                         // traverse to the pos'th node
     prevNode = temp;
      temp = temp.next;
   }
   prevNode.next = temp.next;
   System.out.println("Deleted: " + temp.data); //deleting the node
   size--;
}
                             //DISPALAY Function created
public void display()
   System.out.print("Linked List : ");
   Node node = head;
                                      // as linked list will end when
   while (node!=null) {
Node is Null
     System.out.print(node.data + " ");
     node = node.next;
   System.out.println();
}
public static void main(String args[])
                                      //main program started
{
   linked_list.insert(5);
   linked_list.insert(4);
   linked_list.insert(3);
   linked_list.insert(2);
   linked list.insert(1);
   //calling function
   linked list.display();
}
}
```