|                                       | Page No.                                 |
|---------------------------------------|--|
| > valid perfect Square                | Approach !-                              |
| (ixi)   1 2 3 4 16   F F F F U U U U  | using Binary Seasth<br>Bruttonce we will |
| while (dx=h) &                        | play with mid.                           |
| Tf ( mid * mid == num) return true;   | at abrown acr .                          |
| else if (mid* mid & num) ?  L= mid+1; | 0 10 + (hi + 10                          |
| else if (mid mid > num) & h= mid-1;   | best fox 2                               |
| return h*h == nam;                    | = > do ) 011/00                          |
| ex phromost 1                         | tim To 1 7:                              |

```
import java.util.Arrays;
public class valid {
    public static boolean validSquare(int num){
        long l=1, h=num;
        while(1 <= h)
        {
            long mid=1+(h-1)/2;
            if (mid*mid==num)
                return true;
         else if(mid*mid<=num)
                l=mid+1;
            else
                h=mid-1;
        }
        return h*h==num;
    }
    public static void main(String[] args) {
        int num=25;
        boolean ans= validSquare(num);
        System.out.println(ans);
    }
}
```