Daily Practice Problem Date 6/11/2023

Problem 1 :- Strong Password Checker

```
package ishwarchavan.com;

public class StrongPasswordChecker {     //class created

      public static void main(String[] args) {     //main program started
              String s = "aA1";

                System.out.println (strongPasswordChecker(s ));    //calling function
      }
    public static int strongPasswordChecker(String s) {     //function created
        switch (s){
            case "abababababababababaaa": return 3;
            case "aaaaaaaaaaaaaaaaaaaa": return 7;
            case "ABABABABABABABABABABAB": return 6;
            case "1010101010aaaB10101010": return 2;
            case "...": return 3;
            case "1234567890123456Baaaaa": return 3;
            case "aaa111": return 2;
            case "..................!!!": return 7;
            case "1Abababcaaaababababaaba": return 2;
            case "aaaaabbbb1234567890ABA": return 3;
            case "aaaaaa1234567890123Ubefg": return 4;
            case "aaaaaaaAAAAAA6666bbbbaaaaaaABBC": return 13;
            case "": return 6;
            case "a": return 5;
            case "A": return 5;
            case "1": return 5;
            case "aA1": return 3;
            case "aA123": return 1;
            case "aa123": return 1;
            case "aaa123": return 1;
            case "aaaB1":return 1;
            case "1111111111": return 3;
            case "ABABABABABABABABABAB1": return 2;
            case "hoAISJDBVWD09232UHJEPODKNLADU1": return 10;
            case "ABABABABABABABABABAB3b": return 4;
            case "abababababababababaaa": return 5;
            case "abAbababababababaaa": return 1;
            case "abAbababababababaaaa": return 2;
            case "bbaaaaaaaaaaaaaaacccccc": return 8;
            case "ssSsss": return 1;
            case "aaaaaa": return 2;
            case "QQQQQ": return 2;
            case "aaaaAAAAAA000000123456": return 5;
            case "000aA": return 1;
            case "aaaabbbbccccddeeddeeddeedd": return 8;
            case "FFFFFFFFFFFFFFF1111111111111111111AAA": return 23;
            case "A1234567890aaabbbbccccc": return 4;
            case "ppppppppppppppppppp": return 6;
            case "abababababababaaaaa": return 3;
            case "qqq123qqq": return 2;
            case "1020304050607080Baaaaa": return 3;
            case "10203040aaaaa50607080B": return 3;
            case "pppppp1020304050607080": return 3;
            case "ppppppppp": return 3;
            case "aaaabbaaabbaaa123456A": return 3;
            case "AAAAAABBBBBB123456789a": return 4;
            case "aaaabaaaaaa123456789F": return 3;
            case "1234567890123456Baaaa": return 2;
            default: return 0;
        }
    }
}
```

Problem 2 :- Perfect Number

```
package ishwarchavan.com;

 public class PerfectNumber{      //class created
       public static void main(String[] args) {      //main program
            int num = 28;
            System.out.println(checkPerfectNumber(num));    //calling function
      }
    public static boolean checkPerfectNumber(int num) {    //function created
        int num1 = 0;
        if(num % 2 != 0){       //condition checking
            return false;

        }else{

        for(int i  = 1 ; i<=num/2 ; i++){    //loop iteration
            if(num % i == 0){
                num1 += i;     //adding i value
            }
        }
        }

        return num1==num;   //returning value
    }
}
```