```
! File XDS.INP containing named arguments for running XDS (arbitrary order).
 For further explanations of the meaning of these parameters see xds.man.
! Characters in a line to the right of an exclamation mark are comment.
DETECTOR=ADSC MINIMUM_VALID_PIXEL_VALUE=1 OVERLOAD=65000
DIRECTION_OF_DETECTOR_X-AXIS= 1.0 0.0 0.0 DIRECTION_OF_DETECTOR_Y-AXIS= 0.0 1.0 0.0
 ROFF=0.0 TOFF=0.0!Radial & tangential offset for spiral read-out scanners
MAXIMUM_NUMBER_OF_PROCESSORS=16!<25; ignored by single cpu version of xds
!========= JOB CONTROL PARAMETERS ===========================
 JOB= ALL !XYCORR INIT COLSPOT IDXREF DEFPIX XPLAN INTEGRATE CORRECT
JOB= XYCORR INIT COLSPOT IDXREF
! JOB= IDXREF
! JOB= DEFPIX :
 JOB= CORRECT
                 N INTEGRATE CORRECT
!========= GEOMETRICAL PARAMETERS ===========================
NX=3072 NY=3072 QX=0.102592 QY=0.102592 !ADSC Q315 version
 ORGX=1539.81 ORGY=1534.30 !Detector origin (pixels).
 DETECTOR_DISTANCE=141.025000
                                         !Distance of detector from crystal (mm)
 ROTATION_AXIS= -1.0 0.0 0.0
OSCILLATION RANGE=1.000000
                                       !degrees (>0)
 X-RAY_WAVELENGTH=0.979263
 INCIDENT_BEAM_DIRECTION=0.0 0.0 1.0
 FRACTION_OF_POLARIZATION=0.95 !default=0.5 for unpolarized beam
POLARIZATION_PLANE_NORMAL= 0.0 1.0 0.0
                 !Air absorption coefficient of x-rays
!If you do not know the space group, you may comment out the next two lines ! SPACE_GROUP_NUMBER=0 !0 for un _____n crystals; cell constants are ignored.
!Optional reindexing transformation to apply
                                                 eflection indices
!======= DATA COLLECTION STRATEGY (XPLAN) ===================
                        !!! Warning !!!
! If you processed your data for a crystal with unknown cell constants and ! space group symmetry, XPLAN will repetit the results for space group P1.
!FRIEDEL'S_LAW=FALSE !Default is TRUE.
!Generic file name, access, and format of data images
NAME_TEMPLATE_OF_DATA_FRAMES=../img/prefix_1_?????.img
DATA_RANGE=1 180 !Numbers of first and last data image
BACKGROUND_RANGE=1
                       !Numbers of first and last data image for backgroun
SPOT_RANGE=1 10
SPOT_RANGE=91 100
                        !First and last data image number for finding spots
                         !First and last data image number for finding spots
          !Up to 20 SPOT_RANGE= parameters can be specified
!=========== INDEXING PARAMETERS ============================
!======== CRITERIA FOR ACCEPTING REFLECTIONS ================
VALUE_RANGE_FOR_TRUSTED_DETECTOR_PIXELS= 7000 30000 !Used by DEFPIX
          !for excluding shaded parts of the detector.
TRUSTED_REGION= 0.0 1.41
INCLUDE_RESOLUTION_RANGE=50.0 0.0 !Angstroem; used by DEFPIX,INTEGRATE,CORE
!used by CORRECT to exclude ice-reflections
!EXCLUDE_RESOLUTION_RANGE= 3.93 3.87 !ice-ring at 3.897 Angstrom !EXCLUDE_RESOLUTION_RANGE= 3.70 3.64 !ice-ring at 3.669 Angstrom
!EXCLUDE_RESOLUTION_RANGE= 3.47 3.41 !ice-ring at 3.441 Angstrom
!EXCLUDE_RESOLUTION_RANGE= 2.70 2.64 !ice-ring at 2.671 Angstrom !EXCLUDE_RESOLUTION_RANGE= 2.28 2.22 !ice-ring at 2.249 Angstrom
!====== INTEGRATION AND PEAK PROFILE PARAMETERS =============
!Parameters that are refined during the INTEGRATE step.
```

DELPHI= 5.000000 !controls the number of reference profiles and scaling factor



Most important things to know about XDS.INP (the rest can be found in the documentation, where the exhaustive list of input parameters are described, if needed)

Everything written after a! is comment, i.e. not taken into account

Highlighed in cyan:

Input parameters describing the experimental setup. In principle, they do not require editing, since they should reflect the actual setup.

Highlighted in yellow:

Inout parameters defining the use of the different dectector regions. In principle, no editing is required.

Highlighted in green:

Parameters to be possibly edited. See comments for each input parameters for more informations.