Herut & Discussion: For the Relected grung the bond distance between 5.38 The Selected atoms was found to be 4101948 DE2 was
1 EU34 - CD1 - Acel was 5.12° 10 Atom selected psi, phi, wangles were -67.56; -41.26° -178.
* The tolking angles were also adjusted such that angles were fit in the allowed regions of ramachandran plot. ** Cools such as Color, display & align were used to study the molecules.
TO THE WILLIAM STEEL OF THE STE
in the understanding of the ability of protein to bind to ligand molecules thus helping in understanding of the proteins conformational Changes.

Date 15/2/24 Page No. 32 Experiment Result..... Det to alixplay remachandran plot.

School Energy minimisation can be done by clicking an select apprior of select all. option.

A window opens Check for all values to be in negative. Then save new minimised protein.

* hoop can be introduced in protein molecule by selecting built supp to built option.

* By selecting atleast 3 points on molecules to introduce 1 looping. & Select Epopen the downloaded begand molecule protein with respect to structural alignment & Analysis of Active site 2 Open the PDB file 1 LDM, select the compute H-bond iken of tool names.

21 Click on control panel window woll to the bottom & select the groups NADOXM, they should two red. Alow Choose the item show only 4 bond from selection on the desplay minu, then choose H-bonds & same none group with resible Finally het = key of numerical key pools to rescale zy recentre view.

102P/11DM Query! UPLI https:// www.expany.org/SPDVB/ https://www.rcsb.org. Procedure! # Thogin DDB dotabases living www.xxsb.org

In the search box type the given query TO &

download the protein in PDB format. Den SPDVBV that is installed in your system.

* Select file & open the down loaded query in PDB format. * To manipulate the molecule Click on took select relevant too for ecoming & rotating it. to resultise the Structure in 3D deled display * To display -colour Click secondary structure by default and indicates & helix, yellean Bisheet. & Click 5th bretten in tool barg Select two atoms on the molecule to Calculate bond length or distance between two atoms. W Click 6th bottom in tool barry soled 3 atoms to Calculate bond angle of radius between 3 atoms.

(Cick 7th botton in tool & Soleet 4 atoms to

Calculate dibydral (Torsion) angle between 4 atoms.

The control panel window Right Wick Symbol

William to desplay protein Structure in backbene

Sibbon model.

Defermination of higherd - protein interactions

wing SPDBV / SWISS

Aim: To defermine Ligand protein interaction by

resing SPDBV - Swiss Software tool.