WE WILL NOW GO ON FOR **LARGEST VALUE** FOR THE WHITE VALUE(**w\_VAL**). THIS WILL REMOVE THE BUG WHICH MAKE THE SERVO TO MAINTAIN NON ZERO POSITION FOR ZERO COMPENSATED VALUES.

::::::::THE READINGS OF SENSORS ARE :::::::::

$152 012 012 030 069 115 015 022$

THE COMPENSATED READINGS ARE ::::::::::: TEST MODE :::::::

000 001 001 032 107 176 008 013

Position is (inc from sen 0 to 7) :: 01392

Error is (1536 - position) :: 00144

servo output(by propotional correction only, without limits bound) is :: 0146

PRESS ANY KEY::

::::::::THE READINGS OF SENSORS ARE :::::::::

$157 012 025 055 115 077 015 032$

THE COMPENSATED READINGS ARE :::::::::

000 001 023 075 191 112 008 026

Position is (inc from sen 0 to 7) :: 01499

Error is (1536 - position) :: 00037

servo output(by propotional correction only, without limits bound) is :: 0149

**problem**

THE COMPENSATED READINGS ARE ::::::::::: TEST MODE :::::::

000 **205 232 077** 003 003 003 006

Position is (inc from sen 0 to 7) :: 02688

Error is (1536 - position) :: -01152

servo output(by propotional correction only, without limits bound) is :: 01753

PRESS ANY KEY::

::::::::THE READINGS OF SENSORS ARE :::::::::

$155 011 011 011 011 011 012 014$

THE COMPENSATED READINGS ARE ::::::::::: TEST MODE :::::::

000 000 000 000 001 001 003 002

Position is (inc from sen 0 to 7) :: 00511

Error is (1536 - position) :: 01025

servo output(by propotional correction only, without limits bound) is :: 01275

**all white (BUG FIXED ABOVE)**

:::::::THE READINGS OF SENSORS ARE :::::::::

**$151 011 011 011 011 011 012 015$ WE WILL USE THESE VALUES NOW FOR W\_VAL**

THE COMPENSATED READINGS ARE ::::::::::: TEST MODE :::::::

000 000 000 000 **001 001 003 003**

Position is (inc from sen 0 to 7) :: 00510

Error is (1536 - position) :: 01026

servo output(by propotional correction only, without limits bound) is :: 01275