**Practical 2 : GDB**

* To start gdb , write exe file name after command gdb

$ gdb binary

This will load the binary executable file and will open gdb to take input .

* To run a program in gdb , type run.
* Program input:-

#include<iostream>

#include<stdlib.h>

using namespace std;

int main()

{

int \*a;

int i;

i=5;

i++;

cout<<"hello"<<endl;

//a=(int \*)malloc(1\*sizeof(int));

a[2]=2;

cout<<a[2]<<endl;

}

As the array a is dynamically declared but not allocated any space , hence accessing it would give a segmentation fault.

The segmentation fault is shown by gdb in the following trace:-

tony\_stark:~$ g++ -g -o a2 p2.cpp

tony\_stark:~$ gdb a2

(gdb) run

Starting program: /home/dipesh/a2

hello

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Program received signal SIGSEGV, Segmentation fault.

0x00000002 in ?? ()