**Experiment 6:- Write a C program that takes, as a command line argument, the number of megabytes of memory it will use and during execution it should consume that much memory. Observe memory usage during program execution using free command.**

**Syntax :** #include<stdio.h>

#include<stlib.h>

#include<time.h>

#include<unistd.h>

int main(int argc, char\* argv[])

{

printf(“Current Process ID =%d\n”,getpid());

long int size= ((long int)atoi(argv[1]))\*1024\*1024;

int\* buffer = (int\*)malloc(size);

time\_t endwait, seconds, start;

seconds=atoi(argv[2]);

start= time(NULL);

endwait= start+seconds:

while(start<endwait){

printf(“.”);

fflush(stdout);

for(long int i=0; i<size/sizeof(int); i++)

{

buffer[i] = i;

}

Start= time(NULL);

}

printf(“(done)\n”);

return 0;

}

**E.g. : Ex\_6, Ex\_6a,Ex\_6b.**