Experiment 6

```c
#include<stdio.h>
#include<stdlib.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;
}
```

```
ubuntu@ubuntu2004:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           3907         787        2506           2         612        2885
Swap:           975           0         975
ubuntu@ubuntu2004:~$ ./Ex_6 100 20
Current Process ID = 1959
....................................................................................
....................................................................................
....................................................................................
....(done)
ubuntu@ubuntu2004:~$
```

```
ubuntu@ubuntu2004:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           3907         886        2407           2         612        2786
Swap:           975           0         975
ubuntu@ubuntu2004:~$
```