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Section : C

Code

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<unistd.h>

int main()
{
   int fd[2],count = 1; pipe(fd);
   pid_t childpid = fork();
   FILE *fp;
   char buffer[100],readbuffer[100];

   if (childpid < 0)
   {
      perror("fork error");
      exit(1);
   }
   else if (childpid > 0) //Parent Process
   {
      printf("PID of parent %d\n", getpid());
      close(fd[0]);
      fp = fopen("input.txt", "r");
      fgets(buffer,100,fp);
      write(fd[1], buffer, (strlen(buffer) + 1));
      close(fd[1]);
   }
   else //Child Process
   {
      printf("PID of child %d\n", getpid());
      printf("PID of parent %d\n", getppid());

      close(fd[1]);
      read(fd[0], readbuffer, sizeof(readbuffer));
      for(int i=0;readbuffer[i];i++)
      {
         if(readbuffer[i]==' ')
            count++;
      }
      printf("Word count: %d\n", count);
      close(fd[0]);
   }
}
```

File content (*input.txt* **)**

Hello I am Ghanashyam Bhat

Screenshot


gb@GB-HP250G7-UbuntuPC: ~
gb@GB-HP250G7-UbuntuPC:~$ gcc pipe.c
gb@GB-HP250G7-UbuntuPC:~$ ./a.out
PID of parent 19935
PID of child 19936
PID of parent 19935
No. of Words: 5
gb@GB-HP250G7-UbuntuPC:~$