CODE :

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<sys/types.h>
#include<string.h>
#include<sys/wait.h>

int main(){
   int fd1[2],n;
   pid_t  pid;
        printf("\n Enter the number in the Fibonacci series :\n");
        scanf("%d",&n);
        int inbuf[n];
        int k=0,even_count=0,odd_count=0;
        int odd_array[n],even_array[n];
        if(pipe(fd1)==-1){
                fprintf(stderr, "Pipe Failed");
                return 1;
        }
        pid = fork();
        if(pid<0){
                fprintf(stderr,"Pipe failed");
                return 1;
        }
        else if (pid>0){
                close(fd1[1]);
                wait(NULL);
                read(fd1[0],inbuf,sizeof(inbuf));
                for(k=0;k<n;k++){
                        if((inbuf[k]%2)==0){
                                even_array[even_count]=inbuf[k];
                                even_count++;
                        }
                        else{
                                odd_array[odd_count]=inbuf[k];
                                odd_count++;
                        }
                }
                printf("\n");
                printf("\nFrom Parent Process(%d) : ",getpid());
                printf("\nEven elements from fibonnaci series:\n");
                for(k=0;k<even_count;k++){
                        printf("%d  ",even_array[k]);
                }
                printf("\nOdd elements from fibonnaci series:\n");
                for(k=0;k<odd_count;k++){
                        printf("%d  ",odd_array[k]);
                }
                printf("\n");
                close(fd1[1]);
```

```
        }
        else{
                int fibo[n],f=0,s=1,i=0;
                close(fd1[0]);
                for(i=0;i<n;i++){
                        if(i<=1){
                                fibo[i] = i;
                        }
                        else{
                                fibo[i] = f + s;
                                f = s;
                                s = fibo[i];
                        }
                }
                write(fd1[1],fibo,sizeof(fibo));
                printf("\nFibonacci series from child process(%d) :\n",getpid());
                for(i=0;i<n;i++)
                        printf("%d  ",fibo[i]);
                close(fd1[1]);
        }
}
```

Output :

```
 Enter the number in the Fibonacci series :
10

Fibonacci series from child process(7738) :
0  1  1  2  3  5  8  13  21  34

From Parent Process(7737) :
Even elements from fibonnaci series:
0  2  8  34
Odd elements from fibonnaci series:
1  1  3  5  13  21
```