```c
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<string.h>
#include<sys/shm.h>

void main()
{
 int fd[2],flag=1,j,i,l;
 char str[20],buff[100];
 pid_t p;
 printf("IPC COMMUNICATION USING PIPE FOR CHECKING PALINDROME OR NOT\n");
 printf("Enter a string\n");
 scanf("%s",str);
 pipe(fd);
 p=fork();
 if(p>0) //child process p=0 if parent p=1
{
 printf("passing a string to child\n");
 write(fd[1],str,20);
}
else
{
 printf("child recived string is \n");
 read(fd[0],buff,100);
 printf("recived string is %s \n",buff);
 l=strlen(buff);
 for(i=0,j=l-1;i<l/2;i++,j--)
 {
  if(buff[i]!=buff[j])
   {
    flag=0;
    break;
   }
 }
if(flag=0)
{
 printf(" %s its not palindrome\n",buff);
}
else
 {
   printf(" %s its palindrome\n",buff);
 }
 }
}
```

```c
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<string.h>
#include<sys/shm.h>

void main()
{
 int fd[2],flag=1,j,i,l;
 char str2[50],str3[50],buff[100];
 char str1[50]="anil";

 pid_t p;
 printf("IPC COMMUNICATION USING PIPE FOR CONCATINATION\n");
 printf("Enter a string\n");
 scanf("%s",str2);
 pipe(fd);
 p=fork();
 if(p>0) //child process p=0 if parent p=1
  {
    printf("passing a string to child\n");
    write(fd[1],str2,50);
  }
 else
  {
   printf("child received string is \n");
   read(fd[0],buff,100);
   printf("received string is %s \n",buff);
   for(i=0;str1[i]!='\0';i++)
    {
      str3[i]=str1[i];
    }
   for(j=0;str2[j]!='\0';j++)
    {
      str3[i+j]=str2[j];
    }
   str3[i+j]='\0';
   printf("concatenated string is %s",str3);
  }
}
```

IPC COMMUNICATION USING PIPE FOR CHECKING PALINDROME OR NOT
Enter a string
malayalam
passing a string to child
child received string is
received string is malayalam
malayalam its palindrome

IPC COMMUNICATION USING PIPE FOR CONCATINATION
Enter a string
kumarl
passing a string to child
child received string is
received string is kumar
concatenated string is anikumar