

Assignment No: 3

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Topic: Pipelining Algorithm

Code:

```
#include<iostream>

#include<string.h>

#include<unistd.h>

#include<sys/wait.h>


using namespace std;


void processA(int);

void processB(int);


void processA(int writefd)
{
    int len=0;
    char buff[80];
    cout<<"Enter the string: ";
    fgets(buff,80,stdin);
    len=strlen(buff);
    if(buff[len-1]=='\n')
    {
        len--;
    }
    write(writefd , buff, len);
}
```

```

void processB(int readfd)
{
    int n,i,j;
    char str[80],temp;
    n=read(readfd,str,80);
    str[n]='\0';
    i=0;
    j=strlen(str)-1;
    while(i<j)
    {
        temp=str[i];
        str[i]=str[j];
        str[j]=temp;
        i++;
        j--;
    }

    for(i=0;i<=strlen(str);i++)
    {
        if(str[i]>=97 && str[i]<=122)
        {
            str[i]=str[i]-32;
        }
    }

    cout<<"Reversed string is::"<<str;
}

```

```
int main()
{
    int pipe1[2];
    pid_t childpid;
    pipe(pipe1);
    childpid=fork();
    if(childpid==0)
    {
        wait(NULL);
        close(pipe1[1]);
        processB(pipe1[0]);
    }

    else
    {
        close(pipe1[0]);
        processA(pipe1[1]);
    }

    return 0;
}
```

Output:

```
Enter the string: kedar
Reversed string is::RADEK

...Program finished with exit code 0
Press ENTER to exit console.□
```