```
1. Drew Sadler
//input
#include <stdio.h>
#include <unistd.h>
int main( int argc, char* argv[] )
while(1)
       int buffer=1024;
       char message[buffer];
       int length = sizeof(message)/sizeof(message[0]);
       char *input_string=fgets(message,length,stdin);
       if(input_string==NULL){
               break;
       }
       else{
               printf("Program 2 got: %s\n", input_string);
       }
}
}
//output
// Drew Sadler
// Include file goes here
#include<stdio.h>
int main( int argc, char* argv[] ){
//Make a call to fprintf() here
fprintf(stdout,"Hello, world!\n");
return 0;
}
   2. [asadler1@hopper3 Studio_07]$ ./pipe
       Program 2 got: Hello, world!
       hello
       а
       ^C
    3. pipefd[0] refers to the read end of the pipe. pipefd[1] refers to the write end of the pipe
    4. Oldfd is closed after a successful run.
```

- dup2(pipefd[1], STDOUT\_FILENO); dup2(pipefd[0], STDIN\_FILENO);
- 6. [asadler1@hopper3 Studio\_07]\$ ./pipe Program 2 got: Hello, world!

hello

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а

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- 7. [asadler1@hopper3 Studio\_07]\$ ./pipe Program 2 got: Hello, world!
- 8. It allows for very dynamic programming and manipulation of data, as it can traverse and edit any file you may be wanting to pipe/connect and extract or retrieve data from any type of source.

Can also allow for chains of programs to be piped together and have different files accessed or executed, making large programs easy to communicate with each sub-process of it and can trace the data through each connection easily, grabbing and placing whatever you need wherever you want it to be streamed to