**Task1:**

**Code:**

|  |  |
| --- | --- |
| #include<stdlib.h>  #include<stdio.h>  #include<unistd.h>  #include<sys/types.h>  #include<string.h>  int main(int argc, char\* arg[])  {  int p1[2];  int p2[2];  pid\_t proc;  char s1[20],s2[20];  pipe(p1);  pipe(p2);  proc=fork();  if(proc==0)  {  close(p1[0]);  write(p1[1],arg[1],(strlen(arg[1])+1));  close(p2[1]);  read(p2[0],s2,sizeof(s2));  printf("%s\n",s2);  } | else  {  int g;  close(p1[1]);  read(p1[0],s1,sizeof(s1));  printf("%s\n",s1);  for(g=0;g<(strlen(s1)+1);g++)  {  if(s1[g]>='A' && s1[g]<='Z')  s1[g]+=32;  else if(s1[g]>='a' && s1[g]<='z')  s1[g]-=32;  else  s1[g]=s1[g];  }  close(p2[0]);  write(p2[1],s1,(strlen(s1)+1));  }  return 0;  } |

**Output:**

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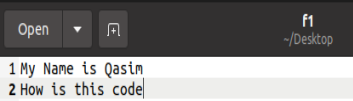
**Task 2:**

**Code:**

|  |  |
| --- | --- |
| #include<stdlib.h>  #include<stdio.h>  #include<unistd.h>  #include<sys/types.h>  #include<string.h>  int main(int argc, char\* arg[])  {  int p1[2];  pid\_t proc;  char s1[100],s2,s3[100];  pipe(p1);  proc=fork();  if(proc==0)  {  int j=0;  FILE \*fil;  fil=fopen(arg[1],"r");  do{  s2=fgetc(fil);  printf("%c",s2); | s1[j]=s2;  j++;  }while(s2 != EOF);  close(p1[0]);  write(p1[1],s1,j-1);  fclose(fil);  }  else  {  FILE \*cpf;  cpf= fopen(arg[2],"w");  close(p1[1]);  read(p1[0],s3,sizeof(s3));  fputs(s3,cpf);  fclose(cpf);  printf("%s",s3);  }  return 0;  } |

**Output:**

File to be copied



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| Copied file before code execution | Copied file after code execution |