TE IT

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Implement an assignment using File Handling System Calls (Low level system calls like open, read, write, etc).

```
#include<stdio.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<stdlib.h>
#include<fcntl.h>
#include<string.h>
int main()
{
    int fd, ch;
    char fname[25];
    char buffer[80];
    ssize_t ret_in, ret_out;
    char message[100];
    do
         printf("1.Create File\n");
         printf("2.Write\n");
         printf("3.Read\n");
         printf("4.Exit\n");
         printf("Enter your choice\t");
         scanf("%d", &ch);
         if(ch==1)
             printf("Enter File Name\t");
             scanf("%s",fname);
             fd=creat(fname,S_IREAD| S_IWRITE);
             if(fd==-1)
```

```
printf("Error in Opening file %s\n",fname);
         else
         {
             printf("File %s is opened read/write access\n",fname);
             printf("%s is currently empty\n",fname);
         close(fd);
    if(ch==2)
         printf("Enter file name\t");
         scanf("%s",fname);
         fd=open(fname,O_WRONLY,1);
         if(fd!=-1)
         {
             printf("file %s opened for write access\n",fname);
             printf("Enter Data\t");
             scanf("%s",message);
             write(fd,message,sizeof(message));
             close(fd);
    if(ch==3)
         printf ("Enter file name\t");
         scanf("%s",fname);
         fd=open(fname,O_RDONLY,0);
         if(fd!=-1)
         {
             printf("%s opened for read access\n",fname);
             if(read(fd,buffer,sizeof(buffer)))
                  printf("\"%s\" was written to %s\n",buffer,fname);
             else
                  printf("***Error reading %s **\n",fname);
         close(fd);
while(ch!=4);
close(fd);
exit(0);
```

}

Output:

1.Create File 2.Write 3.Read 4.Exit Enter your choice 1 Enter File Name sample.txt File sample.txt is opened read/write access sample.txt is currently empty 1.Create File 2.Write 3.Read 4.Exit Enter your choice 2 Enter file name sample.txt file sample.txt opened for write access Enter Data Hi 1.Create File 2.Write 3.Read 4.Exit Enter your choice 3 Enter file name sample.txt sample.txt opened for read access "Hi" was written to sample.txt 1.Create File 2.Write 3.Read 4.Exit

Enter your choice 4