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2021
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Done by Tanmoy
7a
#include<stdio.h>
#include<stdlib.h>
#include <fcntl.h>
#include <unistd.h>
int main(int argc, char const *argv[])
{
      int source, count_vow = 0, size;
      char ch;
      if (argc < 2){
            printf("Wrong Input");
            return -1;
      }
      source = open(argv[1], O_RDONLY);
      if (source == -1){
            printf("While opening file : %s problem orrcurs!", argv[1]);
            return -1;
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}
      while(read(source, &ch, 1)){
             if (ch == 'a' ||ch == 'e' ||ch == 'i' ||ch == 'o' ||ch == 'u' ||ch == 'A'
||ch == 'E' ||ch == 'I' ||ch == 'O' ||ch == 'U'){
                   count_vow += 1;
            }
      }
      close(source);
      source = open(argv[1], O_RDONLY);
      size = Iseek(source, OL, SEEK_END);
      printf("Number of vowels : %d\n", count_vow);
      printf("Size of the file : %d bytes\n", size);
      return 0;
}
8 a
#include<stdio.h>
#include<stdlib.h>
#include <fcntl.h>
#include <unistd.h>
```

```
#include <wait.h>
int main(int argc, char const *argv[])
{
     int id, source;
      char f_name[] = "sample_1.txt", ch;
      id = fork();
      if (id == 0){
            printf("We are in the CHILD process\n");
            printf("Going to create a file with file name %s\n", f name);
            if ((source = open(f_name, O_CREAT | O_WRONLY, 0777)) < 0){
                  printf("While creating file Error occurd!!\n");
                  return -1;
            }
            setvbuf(stdout, NULL, _IONBF, 0);
            printf("\n----\n");
            printf("Enter the string ('` - for exit'):\n");
            while (read(0, \&ch, 1) > 0){
                  if (ch == '`'){
                        printf("\n----\n");
                        printf("Taking input done exiting..\n");
```

```
printf("\n----\n");
             break;
         }
         write(source, &ch, 1);
    }
    close(source);
}
else if(id > 0){
    wait(NULL);
    printf("\n----\n");
    printf("IN the Parent process!!\n");
    printf("\n----\n");
    printf("Opening file : %s\n", f_name);
    printf("\n----\n");
    printf("Contant of the FILE \n");
    printf("\n----\n");
    source = open(f_name, O_RDONLY);
```