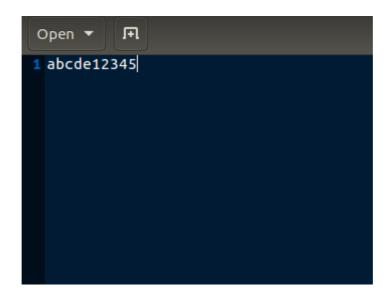
- 3. What will be the output for the program with following operation?
 - a. Create a new file "f1" and write "abcde" in it and close
 - b. Open the file "f1" for writing with O_APPEND flag
 - c. lseek to the beginning of the file
 - d. Replace the existing data in the file with "12345"

Justify your answer.

Program:-

```
Open ▼
           .FR
1 #include <stdio.h>
2 #include <sys/types.h>
3 #include <sys/stat.h>
4 #include <fcntl.h>
5 #include <errno.h>
6 #include <unistd.h>
7 int main() {
         int fd;
         fd = open("f1", O_WRONLY | O_CREAT, 777);
         if(fd == -1) {
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                perror("error openeing file");
                return 0;
         }
         if(write(fd, "abcde", 5) != 5) {
                printf("hi\n");
                perror("error writing to file");
                return 0;
         close(fd);
         fd = open("f1", O_WRONLY | O_APPEND);
         lseek(fd, 0, SEEK_SET);
         if(write(fd,
                        "12345", 5) != 5) {
                printf("hi\n");
                perror("error writing to file");
                return 0;
         close(fd);
         return 0;
31 }
```

File "f1" :-



Justification:

As given in open(2) documentation,

"The file is opened in append mode. Before each *write*(2), the file offset is positioned at the end of the file, as if with *lseek*(2). "

So even though if we lseek to start of file and try to overwrite existing content it will still write new content to end of file.