## **Unx511/DPS912: Unix Systems Programming**

## Quiz 4

```
Answer the questions in bold embedded in the code below: [2 marks each]
//exercise.cpp - Test file for Quiz 4
// 26-Jan-19 M. Watler
                            Created.
#include <fcntl.h>
#include <stdlib.h>
#include <unistd.h>
int main(void)
  int fd1, fd2, fd3;
  const char file[]="Quiz4.txt";
  fd1 = open(file, O_RDWR | O_CREAT | O_TRUNC, S_IRUSR | S_IWUSR);
  fd2 = dup(fd1);
  fd3 = open(file, O_RDWR);
//Question 1: Do fd1 and fd2 share the same file offset value?
//Question 2: Do fd1 and fd3 share the same file offset value?
  write(fd1, "Hello,", 6);
  write(fd2, "world", 5);
//Question 3: What will you see in Quiz4.txt at this point?
  lseek(fd2, 0, SEEK_SET);
  write(fd1, "HELLO,", 6);
//Question 4: What will you see in Quiz4.txt at this point?
  write(fd3, "Gidday", 6);
//Question 5: What will you see in Quiz4.txt at this point?
  close(fd1);
  close(fd2);
  close(fd3);
  return 0;
}
```