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| **Lab No** | 11 | **Reg. No** | 224921 |
| **Student Name** | Muhammad Saad Tariq | **Section** | A |

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| Read Me |
| The following program prompts the user for a search word and a file name, and goes on to search the specified word in that file, then prints out the whole sentence in which that word has been used onto the console.  Steps to run the program:   * Save the code with a .c extension e.g. task.c * Compile the code using command gcc task.c -o task.out. * Execute code with the following arguments: ./task.out ‘searchword’ filename   e.g. “./task.out grep sample.txt” |

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| Solution Task |
| Code:  #include <stdio.h>  #include <stdlib.h>  #include <fcntl.h>  #include <errno.h>  #include <sys/types.h>  #include <unistd.h>  #include <string.h>  int main(int argc, char\* argv[]){  if(argc != 3){  printf("Incorrect no. of arguments\n");  printf("Usage: 'searchword' filename\n");  return 1;  }  int input\_fd, index = 0;  char buff, target[120];  input\_fd = open(argv[2], O\_RDONLY);  if(input\_fd == -1){  perror("open");  return 2;  }  while((read(input\_fd, &buff, sizeof(char))) != 0){  if(buff != '.'){  target[index] = buff;  index++;  }  else{  char\* check;  check = strstr(target, argv[1]);  if(check != NULL){  printf("%s\n", target);  }  for(index = 0; index < 120; index++)  target[index] = 0;  }  }  return 0;  }  Output: |