LAB 2

```
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Lab CD
//Solved Problem
#include <stdio.h>
#include<stdlib.h>
int main()
{
       FILE *fa,*fb;
       fa=fopen("solvedInputFile.c","r");
       if(fa==NULL)
              printf("Cannot open the file\n");
              exit(0);
       }
       fb=fopen("solvedOutputFile.c","w");
       if(fb==NULL)
       {
              printf("Cannot open the file\n");
              exit(0);
       }
       int ca,cb;
       ca=getc(fa);
       while(ca!=EOF)
              if(ca==' ')
                      putc(ca,fb);
                      while(ca==' ')
                             ca=getc(fa);
              }
              if(ca=='/')
                      cb=getc(fa);
                      if(cb=='/')
                             while(ca!='\n')
                                     ca=getc(fa);
```

Q1

}

#include <stdio.h>
#include<stdlib.h>

```
int main()
{
       FILE *fa,*fb;
       fa=fopen("prog1InputFile.c","r");
       if(fa==NULL)
               printf("Cannot open the file\n");
               exit(0);
        }
       fb=fopen("prog1OutputFile.c","w");
       if(fb==NULL)
               printf("Cannot open the file\n");
               exit(0);
       }
       int ca,cb;
       ca=getc(fa);
       while(ca!=EOF)
               if(ca==' ')
                      putc(ca,fb);
                      while(ca==' ' || ca=='\t')
                              ca=getc(fa);
               if(ca=='\t')
                      putc(ca,fb);
                      while(ca==' ' || ca=='\t')
                             ca=getc(fa);
               }
                      putc(ca,fb);
               ca=getc(fa);
       fclose(fa);
       fclose(fb);
       return 0;
```

}

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Q2

```
#include <stdio.h>
#include<stdlib.h>
#include<string.h>
int main()
{
       FILE *fa,*fb;
       fa=fopen("prog2InputFile.c","r");
       if(fa==NULL)
              printf("Cannot open the file\n");
              exit(0);
       }
       fb=fopen("prog2OutputFile.c","w");
       if(fb==NULL)
       {
              printf("Cannot open the file\n");
              exit(0);
       }
       int ca,cb;
       int k=0;
       ca=getc(fa);
       while(ca!=EOF)
       {
              char buff[100];
```

```
k=0;
       if(ca=='#')
               buff[k++]=ca;
               ca=getc(fa);
               while(ca!=' ' && ca!='\n')
                              buff[k++]=ca;
                              ca=getc(fa);
                       buff[k++]=ca;
                      buff[k++]='\0';
               if((strstr(buff,"#include")==NULL && strstr(buff,"#define")==NULL))
                       for (int i=0;i<strlen(buff);i++)</pre>
                      putc(buff[i],fb);
               }
       }
       else
               putc(ca,fb);
       ca=getc(fa);
fclose(fa);
fclose(fb);
return 0;
```

}

```
#include <stdio.h>
#include<stdlib.h>
#include<string.h>
#include <ctype.h>
char keyword_arr[32][10]=
                      "auto", "break", "case",
                                                     "char",
                                                    "default",
                      "const",
                                     "continue",
                                                                   "do",
                                     "else", "enum",
                      "double",
                                                            "extern",
                      "float", "for", "goto", "if",
                      "int", "long",
                                     "register",
                                                     "return",
                      "short",
                                     "signed",
                                                     "sizeof",
                                                                    "static",
                      "struct",
                                     "switch",
                                                     "typedef",
                                                                   "union",
                                     "void", "volatile",
                                                            "while"
                      "unsigned",
};
int main()
{
       FILE *fa,*fb;
       fa=fopen("prog3InputFile.c","r");
       if(fa==NULL)
       {
               printf("Cannot open the file\n");
               exit(0);
       }
       fb=fopen("prog3OutputFile.c","w");
       if(fb==NULL)
       {
               printf("Cannot open the file\n");
               exit(0);
       }
       int ca,cb;
       char str[100];
       ca=getc(fa);
       while(ca!=EOF)
               int k=0;
               while(isalpha(ca))
                              str[k++]=ca;
                              ca=getc(fa);
                      }
```