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LAB-

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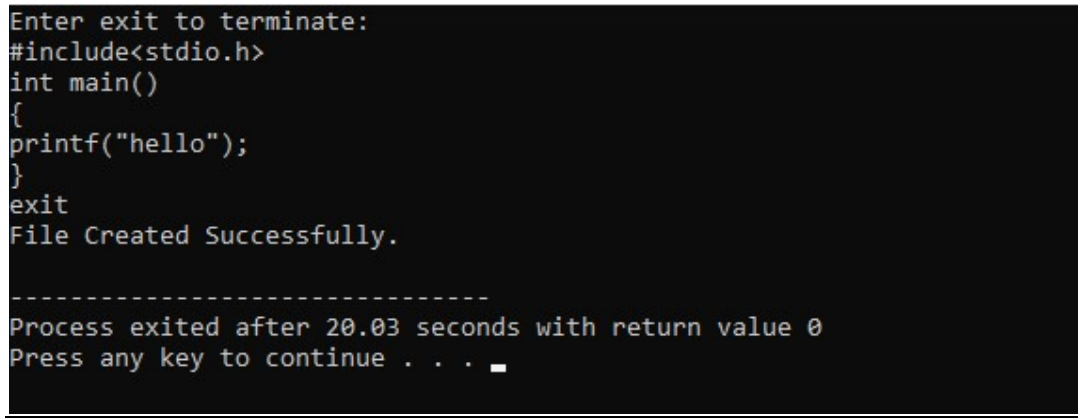
Q1. WAP to take another C program as an input and store it in a file.

//Code

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    ofstream fout;
    fout.open("code.c");
    string s;
    if(fout==NULL)
    {
        printf("Unable to create a file.\n");
        return 0;
    }
    cout<<"Enter exit to terminate:\n";
    while(1)
    {
        cin>>s;
        if(s=="exit")
            break;
        fout<<s<<" ";
    }
    cout<<"File Created Successfully.\n";
    fout.close();
    return 0;
}
```

OUTPUT:



```
Enter exit to terminate:
#include<stdio.h>
int main()
{
printf("hello");
}
exit
File Created Successfully.

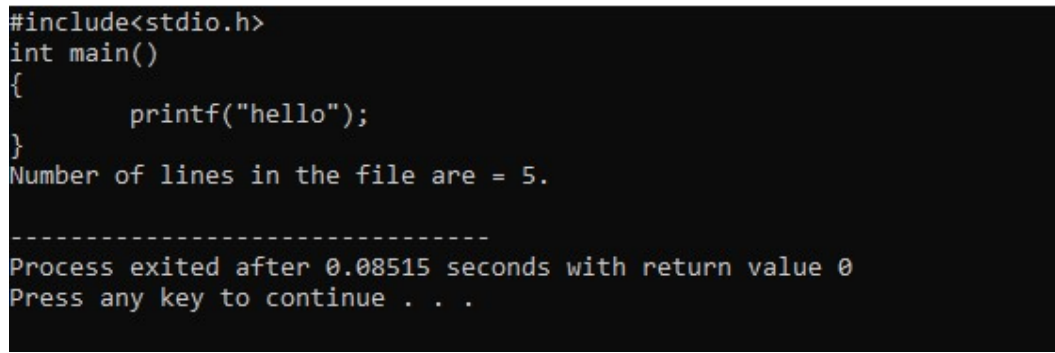
-----
Process exited after 20.03 seconds with return value 0
Press any key to continue . . .
```

Q2. WAP to to count the number of lines in the stored program.

//Code

```
#include<stdio.h>
int main()
{
    FILE *f=fopen("code.c","r");
    char *ch[1024];
    int count=0;
    if(f==NULL)
    {
        printf("Unable to Open a file.\n");
        return 0;
    }
    while(fgets(ch, 1024, f) != NULL)
    {
        printf("%s",ch);
        count++;
    }
    fclose(f);
    printf("\nNumber of lines in the file are = %d.\n",count);
    return 0;
}
```

OUTPUT:



```
#include<stdio.h>
int main()
{
    printf("hello");
}
Number of lines in the file are = 5.
-----
Process exited after 0.08515 seconds with return value 0
Press any key to continue . . .
```

Q3. WAP to count no. of different operators in stored file.

//Code

```
#include<stdio.h>
#include<stdbool.h>

int main()
{
    FILE *f=fopen("code.c","r+");
    char ch;
    int i,count=0;
    bool op[5];
    for(i=0;i<5;i++)
        op[i]=0;
```

```

    if(f==NULL)
    {
        printf("Unable to Open a file.\n");
        return 0;
    }
    while((ch=fgetc(f))!=EOF)
    {
        printf("%c",ch);
        if(ch=='+')
            op[0]=1;
        else if(ch=='-')
            op[1]=1;
        else if(ch=='*')
            op[2]=1;
        else if(ch=='/')
            op[3]=1;
        else if(ch=='%')
            op[4]=1;
    }
    fclose(f);
    for(i=0;i<5;i++)
        if(op[i]==1)
            count++;
    printf("\nNumber of Different Operators are = %d.\n",count);
    return 0;
}

```

OUTPUT:

```

#include<stdio.h>
int main()
{
    printf("hello");
    int a=2,b,c=0;
    b=a+a*a/b+c;
}
Number of Different Operators are = 3.

-----
Process exited after 0.1112 seconds with return value 0
Press any key to continue . . .

```

Q4. WAP to remove all the blank spaces,tabs and newline command from the stored program and write them into another file.

//Code

```

#include <stdio.h>
int main()
{
    FILE *f=fopen("code.c","r"), *fl=fopen("newcode.c","w");
    int c = 0,count = 0;

    if(f==NULL)
    {

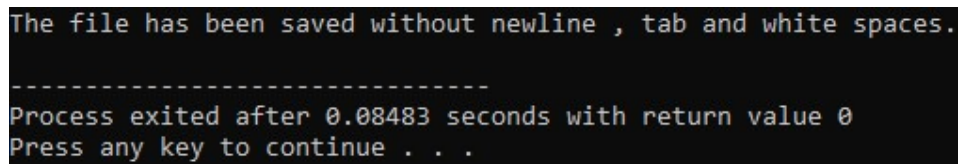
```

```

        printf("Unable to open file.\n");
        return 0;
    }
    for(c = getc(f);c!=EOF;c=getc(f))
    {
        if (c==' '||c=='\t'||c=='\n')
            continue;
        else
            fputc(c,f1);
    }
    fclose(f);
    printf("The file has been saved without newline , tab and white spaces.\n");
    return 0;
}

```

OUTPUT:



```

The file has been saved without newline , tab and white spaces.
-----
Process exited after 0.08483 seconds with return value 0
Press any key to continue . . .

```

Q5. WAP to check the single line and multiple line comment in the previous program.

//Code

```

#include<stdio.h>
#include<stdio.h>
#include<stdbool.h>

int main()
{
    FILE *f=fopen("code.c","r");
    if(f==NULL)
    {
        printf("Unable to open the file.\n");
        return 0;
    }
    char curr,old;
    int res=0;
    bool prev=0;
    while((curr=fgetc(f))!=EOF)
    {
        printf("%c",curr);
        if(!prev)
        {
            prev=1;
            old=curr;
        }
        else if(res==0 && (old==47 && curr==47))
            res=1;
        else if(res==0 && (old==47 && curr=='*'))
            res=2;
        else
            old=curr;
    }
}

```

```
    if(res==1)
        printf("\nSingle Line Comment Found.\n");
    else if(res==2)
        printf("\nMultiLine Comment Found.\n");
    else
        printf("\nNo Comment Found in the code.\n");
    return 0;
}
```

OUTPUT:

```
#include<stdio.h>
int main()
{
    //This is a program.
    printf("hello");
    int a=2,b,c=0;
    b=a+a*b/c;
}
Single Line Comment Found.

-----
Process exited after 0.1365 seconds with return value 0
Press any key to continue . . .
```