//RUNTIME linking

1 //void \*dlopen(const char \*filename, int flags)

2 //void \*dlsym(void \*handle, const char \*symbol);

3 //int dlclose(void \*handle);

4 //char \*dlerror(void);

5 #include<stdio.h>

6 #include<dlfcn.h>

7 int add(int,int);

8 int sub(int,int);

9 int mul(int,int);

10 int main()

11 {

12 int a,b;

13 int res,op;

14 void \*handler;

15 int (\*ptr)(int,int);

16 printf("enter a value...\n");

17 scanf("%d",&a);

18 printf("enter b value...\n");

19 scanf("%d",&b);

20 printf("1:add 2:sub 3:mul\n");

21 printf("enter option...\n");

22 scanf("%d",&op);

23 if(op==1)

24 {

25 handler=dlopen("libdyanamic.so",RTLD\_LAZY);

26 if(handler==0)

27 {

28 // printf("lib not loaded...\n");

29 printf("%s\n",dlerror());

30 return 0;

31 }

32 ptr=dlsym(handler,"add");

33 if(ptr==0)

34 {

35 printf("%s\n",dlerror());

36 //printf("symbol not found...\n");

37 return 0;

38 }

39 res=(\*ptr)(a,b);

40 printf("add:%d\n",res);

41 dlclose(handler);

42 }

43 else if(op==2)

44 {

45 handler=dlopen("libdyanamic.so",RTLD\_LAZY);

46 if(handler==0)

47 {

48 // printf("lib not loaded...\n");

49 printf("%s\n",dlerror());

50 return 0;

51 }

52 ptr=dlsym(handler,"sub");

53 if(ptr==0)

54 {

55 //printf("symbol not found...\n");

56 printf("%s\n",dlerror());

57 return 0;

58 }

59 res=(\*ptr)(a,b);

60 printf("sub:%d\n",res);

61 dlclose(handler);

62 }

63 else if(op==3)

64 {

65 handler=dlopen("libdyanamic.so",RTLD\_LAZY);

66 if(handler==0)

67 {

68 // printf("lib not loaded...\n");

69 printf("%s\n",dlerror());

70 return 0;

71 }

72 ptr=dlsym(handler,"mul");

73 if(ptr==0)

74 {

75 printf("%s\n",dlerror());

76 //printf("symbol not found...\n");

77 return 0;

78 }

79 res=(\*ptr)(a,b);

80 printf("mul:%d\n",res);

81 dlclose(handler);

82 }

83 else

84 printf("invalid choice..\n");

85 }