Operating system

1)

#include <pthread.h>

#include <stdlib.h>

#include <stdio.h>

#include <unistd.h>

// printWelcomeMessage will be called when the Thread is created in the main function

// which takes string as an argument

void \*printWelcomeMessage(void \*names) {

sleep(2);

char \*name = (char \*)names;

printf("\n[THREAD] Hello, Welcome %s.", name);

pthread\_exit(NULL);

}

int main () {

// thread defintion

pthread\_t threads[7];

// parameter to be passed to the called function - printWelcomeMessage

char names[10][15] = {"Amritha","Praveen","Saurabh","Sangeetha","Lakshmy","Srinivasan","Ramaguru"};

int result;

for(int i = 0; i < 7; i++ ) {

printf("\n[MAIN] Creating thread, %d", i);

// Creating the threading and thus calling the function with parameter passed to it

result = pthread\_create(&threads[i], NULL, printWelcomeMessage, (void \*)names[i]);

if (result) {

printf("Error in creating thread, %d ", result);

exit(-1);

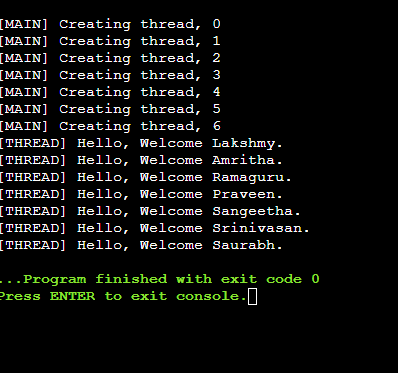
}

}

// Exit the thread

pthread\_exit(NULL);

}



2)

#include <pthread.h>

#include <stdlib.h>

#include <stdio.h>

#include <unistd.h>

// printWelcomeMessage will be called when the Thread is created in the main function

// which takes string as an argument

void \*printWelcomeMessage(void \*threadid) {

sleep(6);

long tid = (long) threadid;

char \*name = (char \*)threadid;

printf("\n[THREAD] Hello, Welcome %s.", name);

pthread\_exit(NULL);

}

int main () {

// thread defintion

pthread\_t threads[7];

// parameter to be passed to the called function - printWelcomeMessage

char names[10][15] = {"Amritha","Praveen","Saurabh","Sangeetha","Lakshmy","Srinivasan","Ramaguru"};

int result;

for(int i = 0; i < 7; i++ ) {

printf("\n[MAIN] Creating thread, %d", i);

// Creating the threading and thus calling the function with parameter passed to it

result = pthread\_create(&threads[i], NULL, printWelcomeMessage, (void \*)names[i]);

if (result) {

printf("Error in creating thread, %d ", result);

exit(-1);

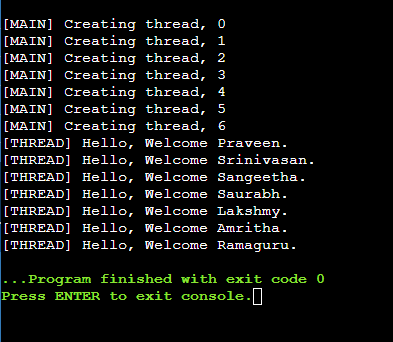
}

}

// Exit the thread

pthread\_exit(NULL);

}



3)

#include <pthread.h>

#include <stdlib.h>

#include <stdio.h>

#include <unistd.h>

struct argfunc

{

int a;

int b;

char name[10];

};

void \*addition(void \*arg)

{

struct argfunc \*obj = arg;

int c= obj->a + obj->c;

printf("%d", c);

}

int main(){

sytruct argfunc mobi;

mobj.a = 5;

mobj.b = 10;

mobj.name;

pthread-create(&thread, NULL);

additio, &mobj[];

}

