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SID: 11146

OS LAB 8

Q1:

CODE:

```
#include <stdio.h>
#include <pthread.h>
#define len 20
#define Therad 5
int array[len] = { 1, 5, 7, 10, 12, 14, 15, 18, 20, 22, 25, 27, 30, 64, 110, 220, 23, 657, 43, 2 };
int key, i;
int flag = 0;
int count = 0;
void* MySearch(void* arr) {
 int num = count++;
 for (i = num * (len / 5); i < ((num + 1) * (len / 5)); i++){
   if (array[i] == key)
     flag = 1;
 }
}
int main()
{
```

```
printf("Enter number :");
    scanf("%d",&key);

pthread_t thread[Therad];

for (i = 0; i < Therad; i++) {
    pthread_create(&thread[i], NULL, MySearch, (void*)NULL);
}

for (i = 0; i < Therad; i++) {
    pthread_join(thread[i], NULL);
}

if (flag == 1)
    printf("Key element is found");
else
    printf("Key element is not found");
}</pre>
```

OUTPUT:



