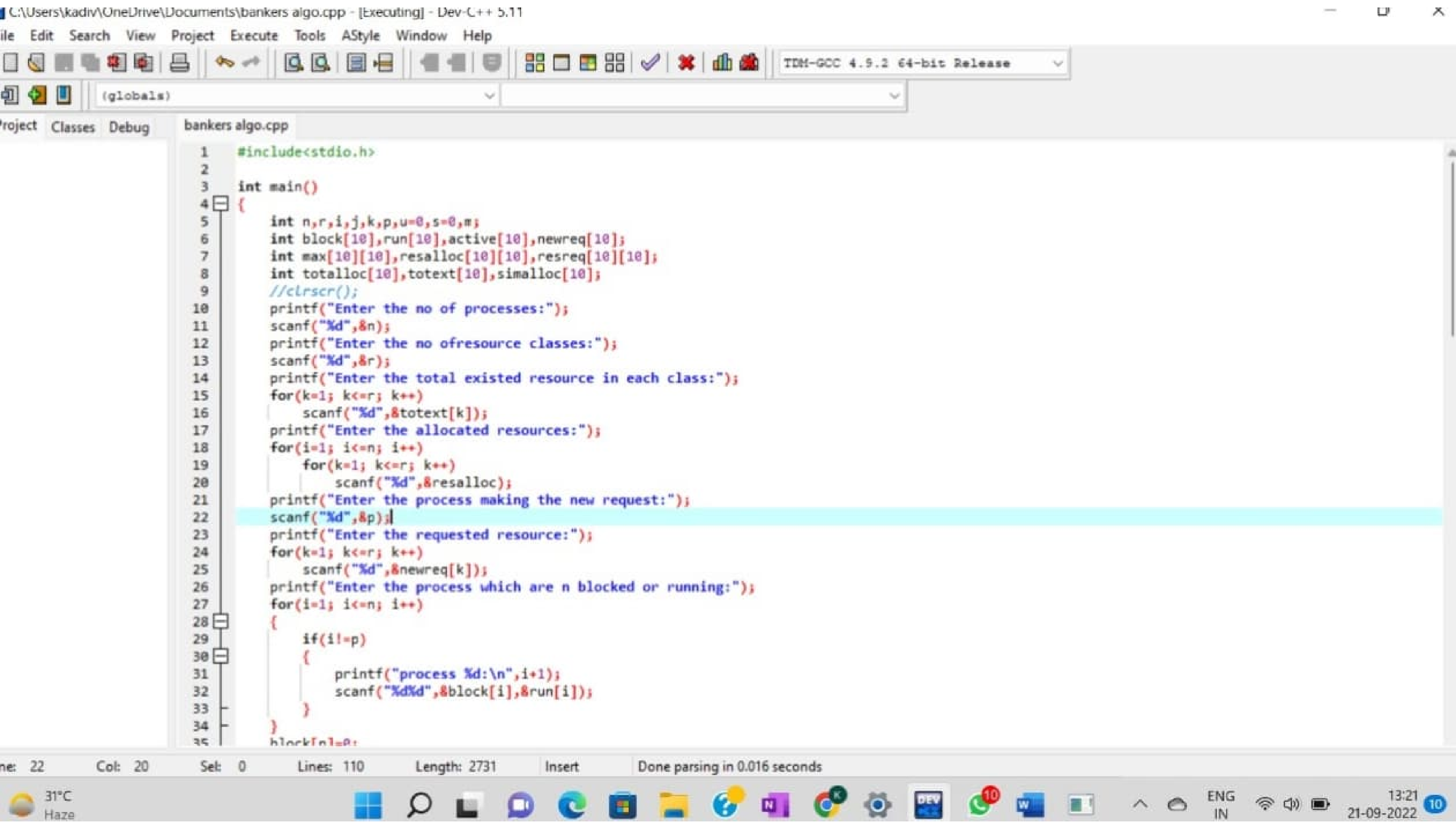
C:\Users\kadiv\OneDrive\Documents\bankers algo.cpp - [Executing] - Dev-C++ 5.11
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TDM-GCC 4.9.2 64-bit Release
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Debug
bankers algo.cpp
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Col: 20
Sel: 0
Lines: 110
Length: 2731
Insert
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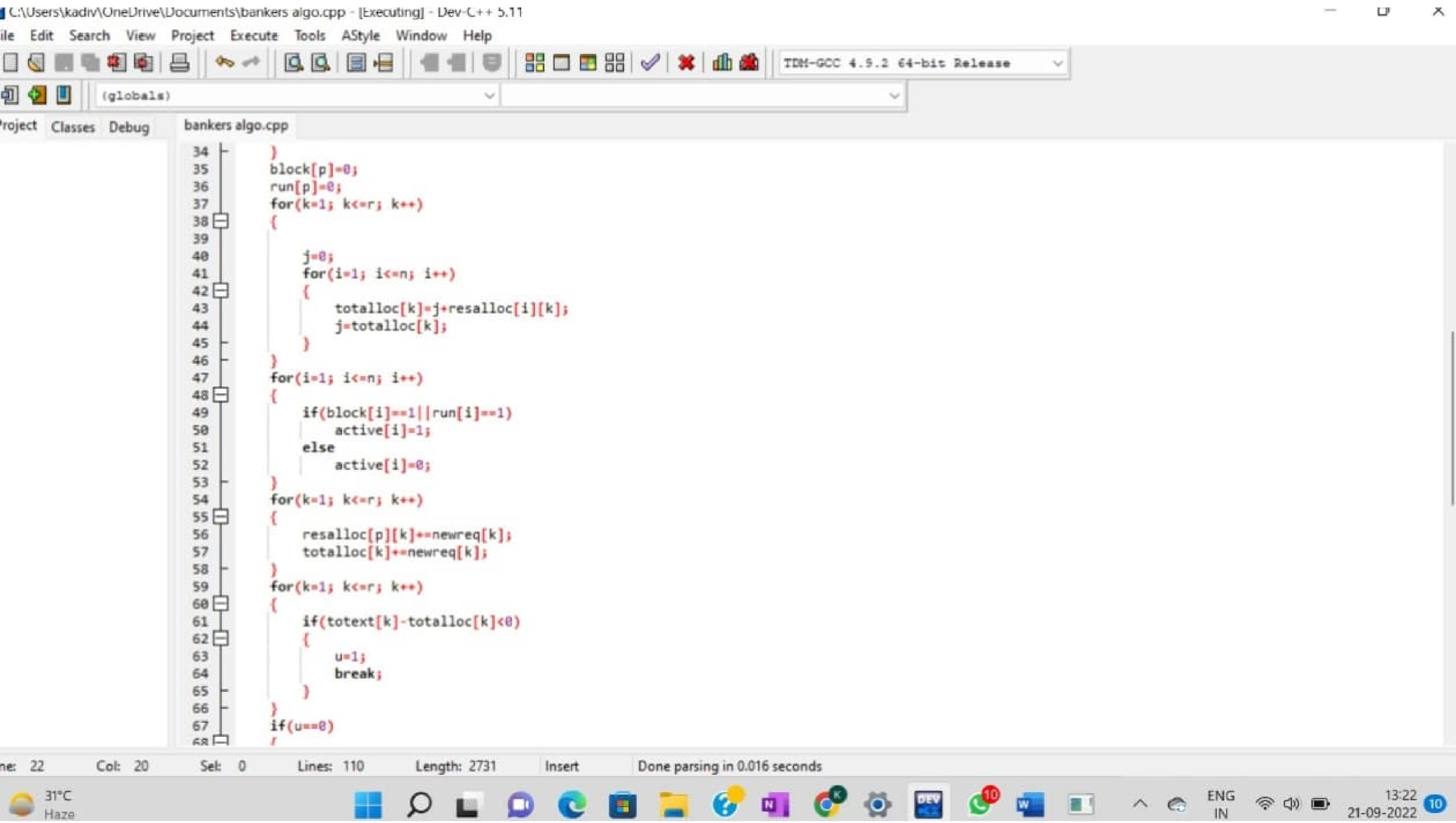
```
#include<stdio.h>

int main()
{
	int n,r,i,j,k,p,u=0,s=0,m;
	int block[10],run[10],active[10],newreq[10];
	int max[10][10],resalloc[10][10],resreq[10][10];
	int totalloc[10],totext[10],simalloc[10];
	//clrscr();
	printf("Enter the no of processes:");
	scanf("%d",&n);
	printf("Enter the no ofresource classes:");
	scanf("%d",&r);
	printf("Enter the total existed resource in each class:");
	for(k=1; k<=r; k++)
		scanf("%d",&totext[k]);
	printf("Enter the allocated resources:");
	for(i=1; i<=n; i++)
		for(k=1; k<=r; k++)
			scanf("%d",&resalloc);
	printf("Enter the process making the new request:");
	scanf("%d",&p);
	printf("Enter the requested resource:");
	for(k=1; k<=r; k++)
		scanf("%d",&newreq[k]);
	printf("Enter the process which are n blocked or running:");
	for(i=1; i<=n; i++)
	{
		if(i!=p)
		{
			printf("process %d:\n",i+1);
			scanf("%d%d",&block[i],&run[i]);
		}
	}
	block[n]=0;
```


C:\Users\kadiv\OneDrive\Documents\bankers algo.cpp - [Executing] - Dev-C++ 5.11
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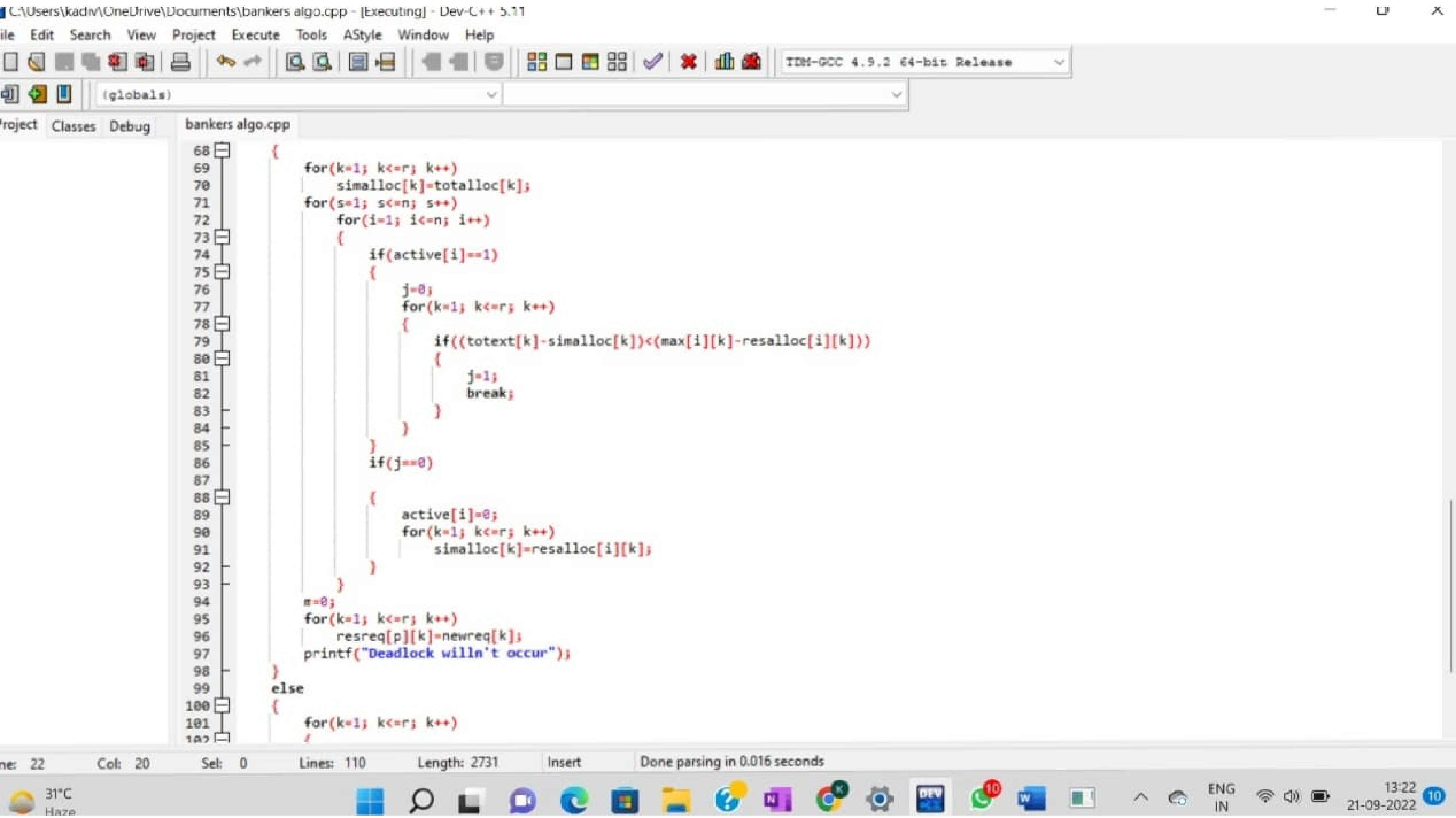
```cpp
    }
    block[p]=0;
    run[p]=0;
    for(k=1; k<=r; k++)
    {

        j=0;
        for(i=1; i<=n; i++)
        {
            totalloc[k]=j+resalloc[i][k];
            j=totalloc[k];
        }
    }
    for(i=1; i<=n; i++)
    {
        if(block[i]==1||run[i]==1)
            active[i]=1;
        else
            active[i]=0;
    }
    for(k=1; k<=r; k++)
    {
        resalloc[p][k]+=newreq[k];
        totalloc[k]+=newreq[k];
    }
    for(k=1; k<=r; k++)
    {
        if(totext[k]-totalloc[k]<0)
        {
            u=1;
            break;
        }
    }
    if(u==0)
    {
```


C:\Users\kadiv\OneDrive\Documents\bankers algo.cpp - [Executing] - Dev-C++ 5.11
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bankers algo.cpp
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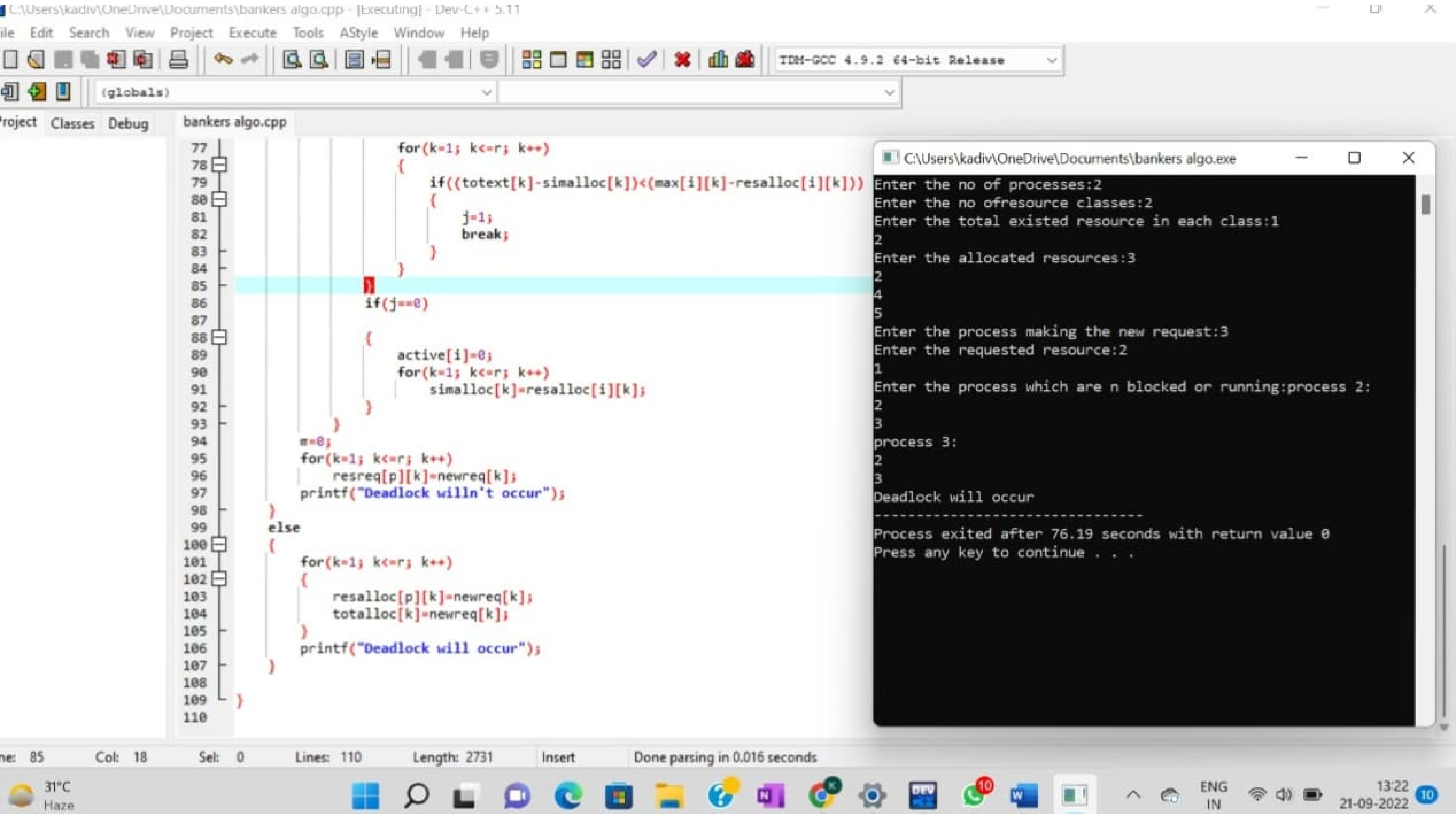
```
    {
        for(k=1; k<=r; k++)
            simalloc[k]=totalloc[k];
        for(s=1; s<=n; s++)
            for(i=1; i<=n; i++)
            {
                if(active[i]==1)
                {
                    j=0;
                    for(k=1; k<=r; k++)
                    {
                        if((totext[k]-simalloc[k])<(max[i][k]-resalloc[i][k]))
                        {
                            j=1;
                            break;
                        }
                    }
                }
                if(j==0)

                {
                    active[i]=0;
                    for(k=1; k<=r; k++)
                        simalloc[k]=resalloc[i][k];
                }
            }
        m=0;
        for(k=1; k<=r; k++)
            resreq[p][k]=newreq[k];
        printf("Deadlock willn't occur");
    }
    else
    {
        for(k=1; k<=r; k++)
        {
```

ne: 22 Col: 20 Sel: 0 Lines: 110 Length: 2731 Insert Done parsing in 0.016 seconds


C:\Users\kadiv\OneDrive\Documents\bankers algo.cpp - [Executing] - Dev-C++ 5.11
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C:\Users\kadiv\OneDrive\Documents\bankers algo.exe
ne: 85 Col: 18 Sel: 0 Lines: 110 Length: 2731 Insert Done parsing in 0.016 seconds
31°C Haze
ENG IN
13:22 21-09-2022

```
                    for(k=1; k<=r; k++)
                    {
                        if((totext[k]-simalloc[k])<(max[i][k]-resalloc[i][k]))
                        {
                            j=1;
                            break;
                        }
                    }
                }
                if(j==0)

                {
                    active[i]=0;
                    for(k=1; k<=r; k++)
                        simalloc[k]=resalloc[i][k];
                }
            }
        m=0;
        for(k=1; k<=r; k++)
            resreq[p][k]=newreq[k];
        printf("Deadlock willn't occur");
    }
    else
    {
        for(k=1; k<=r; k++)
        {
            resalloc[p][k]=newreq[k];
            totalloc[k]=newreq[k];
        }
        printf("Deadlock will occur");
    }

}
```

```
Enter the no of processes:2
Enter the no ofresource classes:2
Enter the total existed resource in each class:1
2
Enter the allocated resources:3
2
4
5
Enter the process making the new request:3
Enter the requested resource:2
1
Enter the process which are n blocked or running:process 2:
2
3
process 3:
2
3
Deadlock will occur
--------------------------------
Process exited after 76.19 seconds with return value 0
Press any key to continue . . .
```