```
#include<stdio.h>
#include<cuda.h>
#define row1 2
#define col1 3
#define row2 3
#define col2 2
  global__ void matadd(int *l,int *m, int *n)
  int x=threadIdx.x;
  int y=threadIdx.y;
  int k;
  n[col2*y+x]=0;
  for(k=0;k<col1;k++)
    n[col2*y+x]=n[col2*y+x]+l[col1*y+k]*m[col2*k+x];
int main()
  int a[row1][col1];
  int b[row2][col2];
  int c[row1][col2];
  int *d,*e,*f;
  int i,j;
  printf("\n Enter elements of first matrix of size 2*3\n");
  for(i=0;i < row1;i++)
    for(j=0;j<col1;j++)
       scanf("%d",&a[i][j]);
  printf("\n Enter elements of second matrix of size 3*2\n");
  for(i=0;i<row2;i++)
    for(j=0; j < col2; j++)
       scanf("%d",&b[i][j]);
  cudaMalloc((void **)&d,row1*col1*sizeof(int));
  cudaMalloc((void **)&e,row2*col2*sizeof(int));
  cudaMalloc((void **)&f,row1*col2*sizeof(int));
  cudaMemcpy(d,a,row1*col1*sizeof(int),cudaMemcpyHostToDevice);
  cudaMemcpy(e,b,row2*col2*sizeof(int),cudaMemcpyHostToDevice);
dim3 threadBlock(col2,row1);
  matadd<<<1,threadBlock>>>(d,e,f);
cudaMemcpy(c,f,row1*col2*sizeof(int),cudaMemcpyDeviceToHost);
printf("\nProduct of two matrices:\n ");
for(i=0;i < row1;i++)
    for(j=0;j<col2;j++)
       printf("%d\t",c[i][j]);
    printf("\n");
  cudaFree(d);
```

```
cudaFree(e);
cudaFree(f);
return 0;
```

OUTPUT:

