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Subject: Operating System
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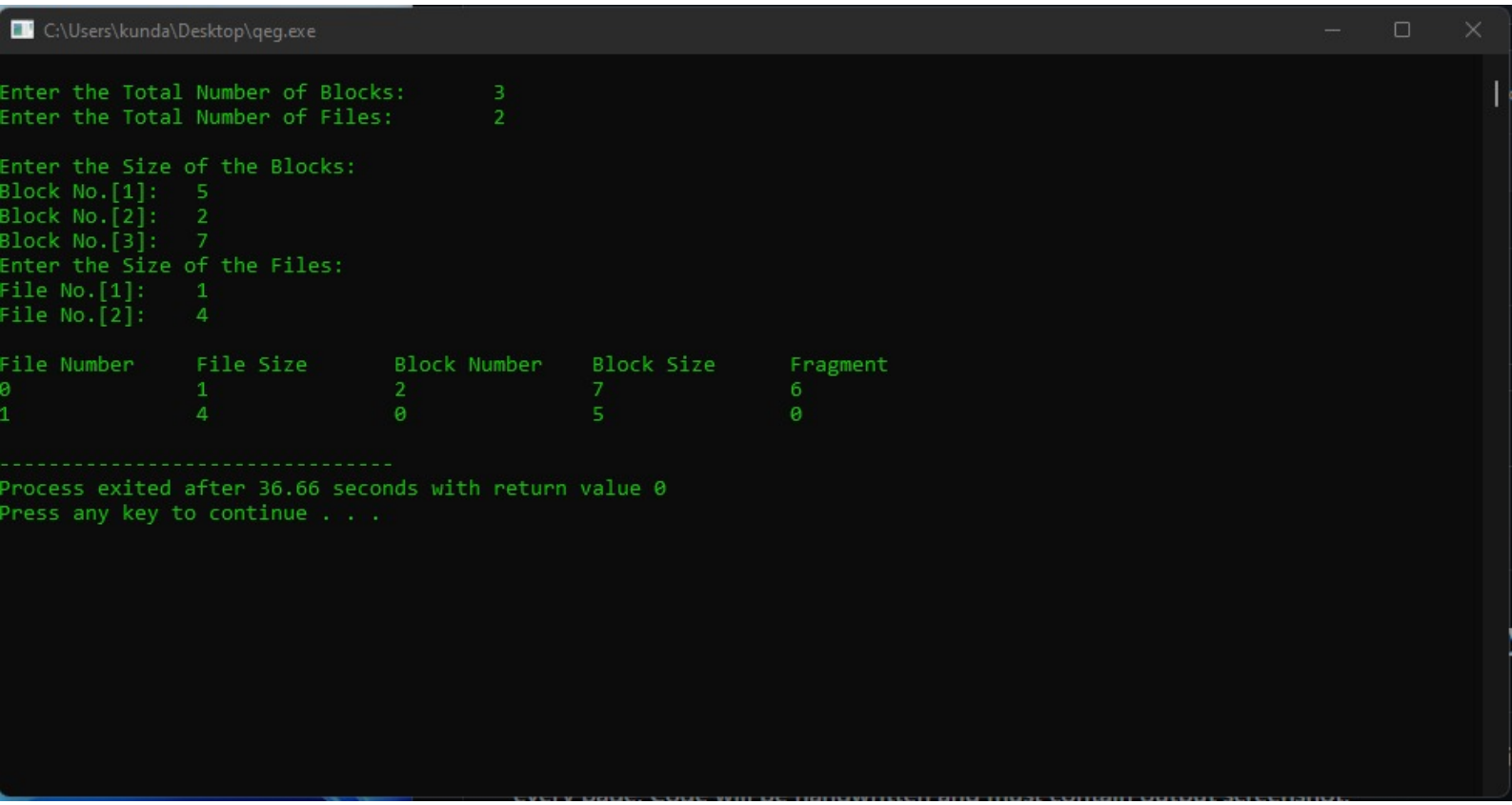
Q 1 Write a c Program for Worst Fit memory mangemnt Scheme:-

Ans
```
#include<stdio.h>
int main()
{
    int fragments[10], blocks[10], files[10];
    int m, n, number_of_blocks, number_of_files, temp,
        top=0;
    Static int block_arr[10], file_arr[10];
    Printf("\nEnter the total number of Blocks:\t");
    Scanf("%d", &number_of_blocks);
    Printf("Enter the total nos of files:\t");
    Scanf("%d", &number_of_files);
    Printf("\nEnter the Size of the Blocks:\n");
    For(m=0; m<number_of_blocks; m++)
    {
        Printf("Block No.[%d]:\t", m+1);
        Scanf("%d", &blocks[m]);
    }
    Printf("Enter the Size of the files:\n");
    For(m=0; m<number_of_files; m++)
    {
```

```
Printf("File No.[%d]:\t", m+1);
Scanf("%d", &files[m]);
}
For(m=0; m<number_of_files; m++)
{
  for(n=0; n< number_of_blocks; n++)
  {
    if(blocks_arr[n] != 1)
    {
      temp = Blocks[n] - files[m];
      if(temp >= 0)
      {
        if(top < temp)
        {
          file_arr[m] = n;
          top = temp;
        }
      }
    }
    fragments[m] = top;
    block_arr[file_arr[m]] = 1;
    top = 0;
  }
}
```

```
Printf("\n File number \t File Size \t Block Number \t Blocksize
        \t Fragment");
for(n=0; n<number_of_files; n++)
{
    Printf("\n%d\t%d\t%d\t%d\t%d", n, files[n], file_
            arr[n], Blocks[file_arr[n]],
            Fragments[n]);
}
Printf("\n");
return 0;
}
```

Shubham


C:\Users\kunda\Desktop\qeg.exe
Enter the Total Number of Blocks: 3
Enter the Total Number of Files: 2
Enter the Size of the Blocks:
Block No.[1]: 5
Block No.[2]: 2
Block No.[3]: 7
Enter the Size of the Files:
File No.[1]: 1
File No.[2]: 4
File Number File Size Block Number Block Size Fragment
0 1 2 7 6
1 4 0 5 0
Process exited after 36.66 seconds with return value 0
Press any key to continue . . .