```
C test2.c
          ×
C test2.c
      #include<stdio.h>
      #include<conio.h>
      void floyds();
      int min(int,int);
      int c[10][10], d[10][10], i,j,k,n,src,dest;
      void main()
          printf("Enter number of vertices\n");
          scanf("%d",&n);
          printf("Enter cost adjacency matrix\n");
          for(i=1;i<=n;i++)
              for(j=1;j<=n;j++)
                  scanf("%d",&c[i][j]);
          floyds();
          printf("\nDistance Matrix\n");
          for(i=1;i<=n;i++)
              for(j=1;j<=n;j++)
                  printf("%d ",d[i][j]);
              printf("\n");
          printf("\nEnter the source vertex:");
          scanf("%d",&src);
          printf("\nEnter the destination vertex:");
          scanf("%d",&dest);
          printf("Shortest path between source vertex %d and destination vertex %d =%d",src,dest,d[src][dest]);
          getch();
      int min(int a,int b)
```

```
C test2.c
 C test2.c
          scanf("%d",&dest);
          printf("Shortest path between source vertex %d and destination vertex %d =%d",src,dest,d[src][dest]);
          getch();
      int min(int a,int b)
          if(akb)
              return(a);
              return(b);
      void floyds()
          for(i=1;i<=n;i++)
              for(j=1;j<=n;j++)
                  d[i][j]=c[i][j];
          for(k=1;k<=n;k++)
              for(i=1;i<=n;i++)
                  for(j=1;j<=n;j++)
                      d[i][j]=min(d[i][j], d[i][k]+d[k][j]);
```

Ⅲ ..

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□ ...
C test2.c X
C test2.c
       #include<stdio.h>
       #include<conio.h>
       void floyds();
  4 int min(int,int);
       int c[10][10], d[10][10], i,j,k,n,src,dest;
      void main()
           printf("Enter number of vertices\n");
           ccanf/"%d" 0n).
                                                                                                                                                                                      ≥ powershell + ∨ ∧ ×
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\muska\OneDrive\Desktop\C programs> gcc test2.c
PS C:\Users\muska\OneDrive\Desktop\C programs> .\a.exe
Enter number of vertices
Enter cost adjacency matrix
0 999 999 5
2 0 999 4
999 1 0 999
999 999 2 0
Distance Matrix
0875
2064
3 1 0 5
5 3 2 0
Enter the source vertex:1
Enter the destination vertex:3
Shortest path between source vertex 1 and destination vertex 3 =7
PS C:\Users\muska\OneDrive\Desktop\C programs>
```