```
#include<stdio.h>
#include<comio.h>
void main()
int array1[50],array2[50],array3[100],i,j,k=0,m,n;
clrscr();
printf("enter the size of first array");
scanf ("zd", &m);
printf("enter the sorted elements of first array\n");
for(i=0;i<m;i++)
scanf(""d",&array1[i]);
printf("enter the size of second array\n");
scanf ("".a", &n);
printf("enter the sorted elements of second array\n");
for(i=0;i<n;i++)
scanf ("M", &array2[i]);
i=0;
        1:1
F1 Help F2 Save F3 Open
                           Alt-F9 Compile
                                            F9 Make F10 Menu
```

merging.c ==

-Б=Гұ]≕п

```
MERGING.C =
                                                                         6=[$]=
scanf ("M",&array2[i]);
i=0;
j=0;
while(i<m&&j<n)
if (array1[i]Karray2[j])
array3[k]=array1[i];
i++;
else
array3[k]=array2[j];
j++;
k++;
if(i>=m)
while(j<∰)
F1 Help
         FZ Save
                   F3 Open
                            Alt-F9 Compile
                                            F9 Make
                                                     F10 Menu
```

```
-6=[‡]-⊓
                                  MERGING.C —
while(j<n)
array3[k]=array2[j];
j++;
k++;
if(j)=n
while(i<m)
array3[k]=array2[i];
i++;
k++;
printf("\nafter merging:\n");
for(i=0;i<m+n;i++)
printf("\mod",array3[i]);
       59:9
F1 Help F2 Save F3 Open
                           Alt-F9 Compile
                                           F9 Make
                                                    F10 Menu
```

```
merging.c ===
                                                                         ₽=[<u>↑</u>]=1
array3[k]=array2[j];
j++;
k++;
if (j>=n)
while(i<m)
array3[k]=array2[i];
1++;
k++;
printf("\nafter merging:\n");
for(i=0;i<m+n;i++)
printf("\mxd",array3[i]);
getch();
       61:9
F1 Help F2 Save F3 Open
                           Alt-F9 Compile
                                            F9 Make
                                                     F10 Menu
```

enter the size of first array3 enter the sorted elements of first array enter the size of second array 3 173 enter the sorted elements of second array 200 E after menging:

Englishe G

```
#include<stdio.h>
#include<conio.h>
int a,b,u,v,n,i,j,ne=1;
int visited[10]={0},min,mincost=0,cost[10][10];
void main()
     clrscrO;
     printf("\nEnter the number of nodes:");
     scanf ("ad", &n);
     printf("\nEnter the adjecency matrix:\n");
     for(i=1;i<=n;i++)
     for(j=1; j<=n; j++)
       scanf("kd",&cost[i][j]);
       if(cost[i][j]==0)
       cost[i][j]=999;
     visited[1]=1;
     printf("\n");
     while(ne <n)
        1:19 ===
F1 Help
         F2 Save F3 Open
                           Alt-F9 Compile
                                            F9 Make F10 Menu
```

PRIMS.C ==

5=[ [ ] =

```
PRIMS.C
       for(i=1,min=999;i<=n;i++)
       for(j=1; j<=n; j++)
       if(cost[i][j]\text{min)
       if(visited[i]!=0)
            min=cost[i][j];
            a=u=i;
            b=v=.j;
         if (visited[u]==0 || visited[v]==0)
            printf("\n Edge %d:(%d %d) cost:%d",ne++,a,b,min);
            mincost+=min;
            visited[b]=1;
            cost[a][b]=cost[b][a]=999;
       printf("\n Minimum cost%d", mincost);
       getch();
       41:1
                                                       F10 Menu
         FZ Save
                  F3 Open
                            Alt-F9 Compile
                                             F9 Make
F1 Help
```

Enter the number of nodes:6

Enter the adjecency matrix:
0 3 1 6 0 0
3 0 5 0 3 0
1 5 0 5 6 4
6 0 5 0 0 2

Edge 1:(1 3) cost:1
Edge 2:(1 2) cost:3
Edge 3:(2 5) cost:3
Edge 4:(3 6) cost:4
Edge 5:(6 4) cost:2
Minimum cost13\_

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