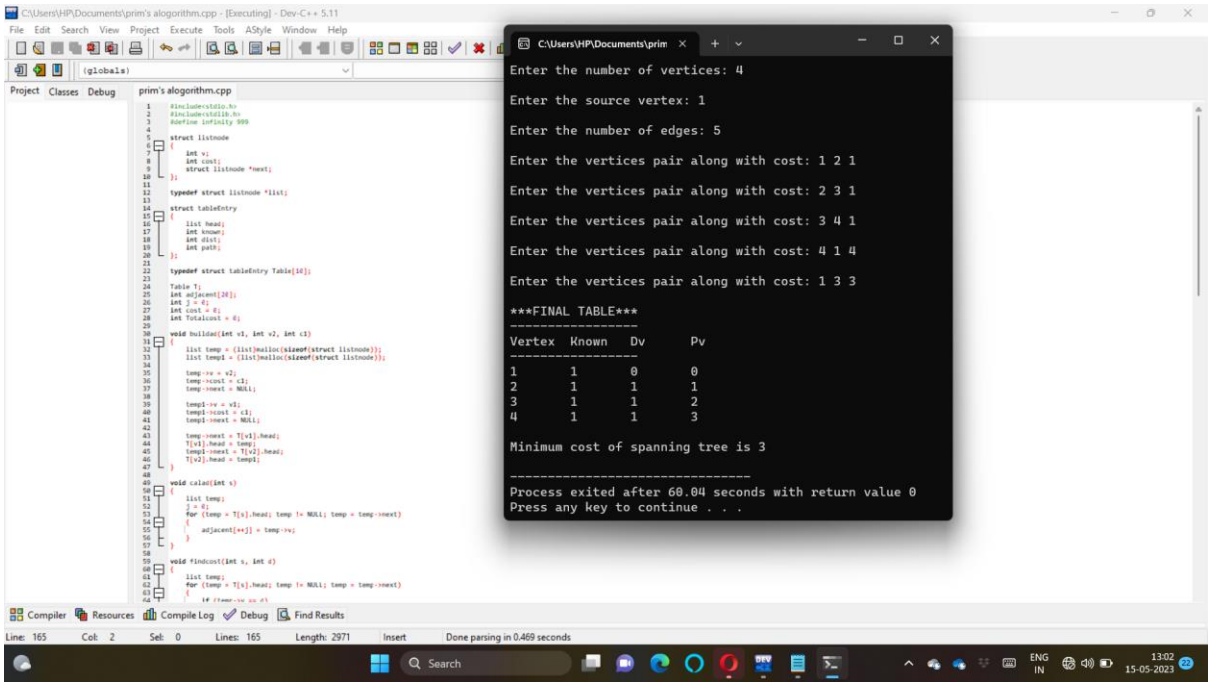
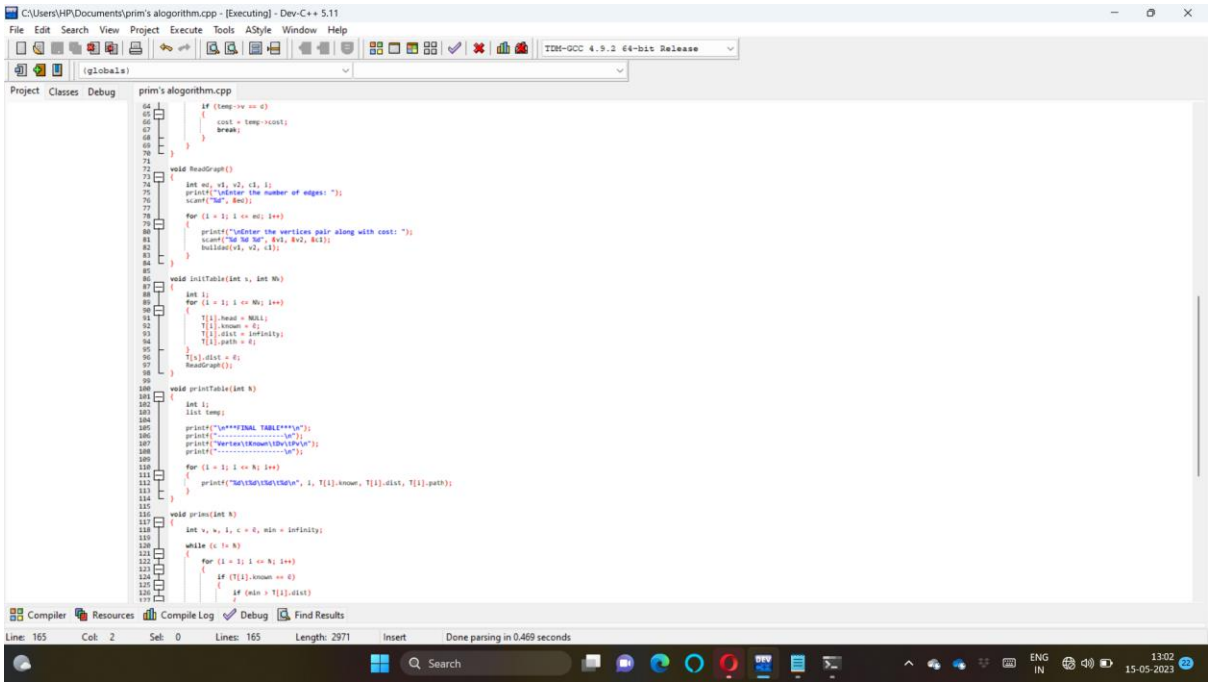
NAME:P.HARI HASSAN

REG.NO:192210633

DATE:15/05/23

1.C PROGRAMM FOR PRIM'S ALOGRITHM




C:\Users\HP\Documents\prim's alogorithm.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
prim's alogorithm.cpp
Compiler Resources Compile Log Debug Find Results
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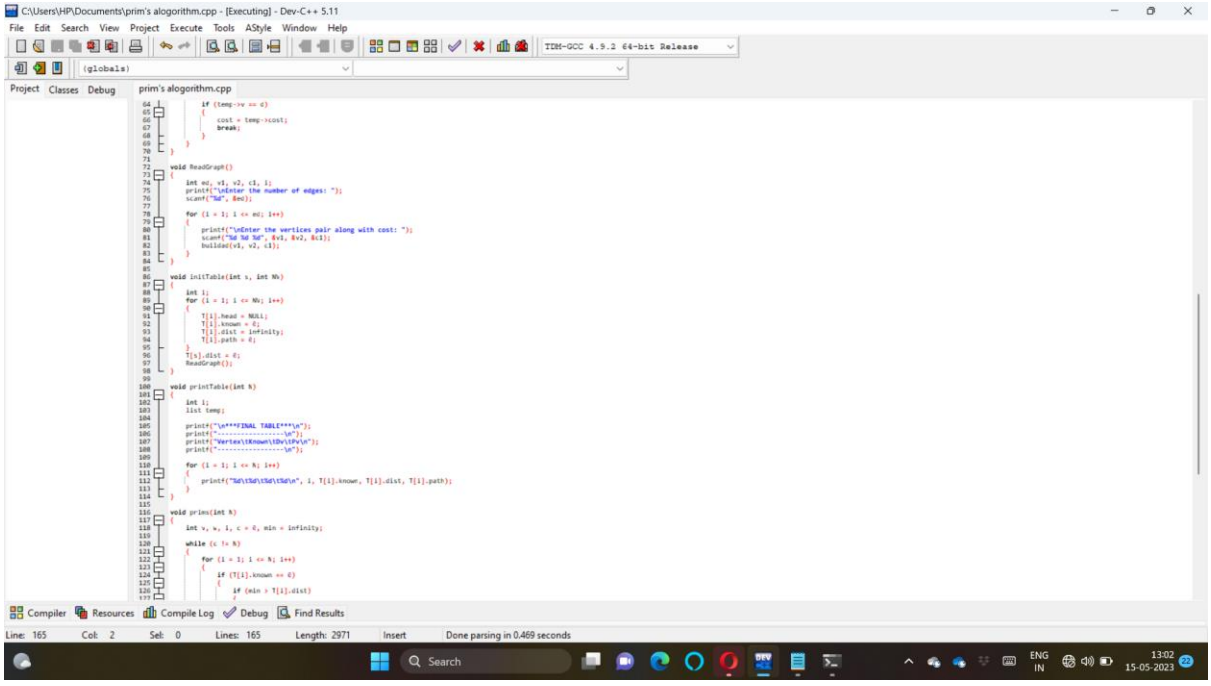
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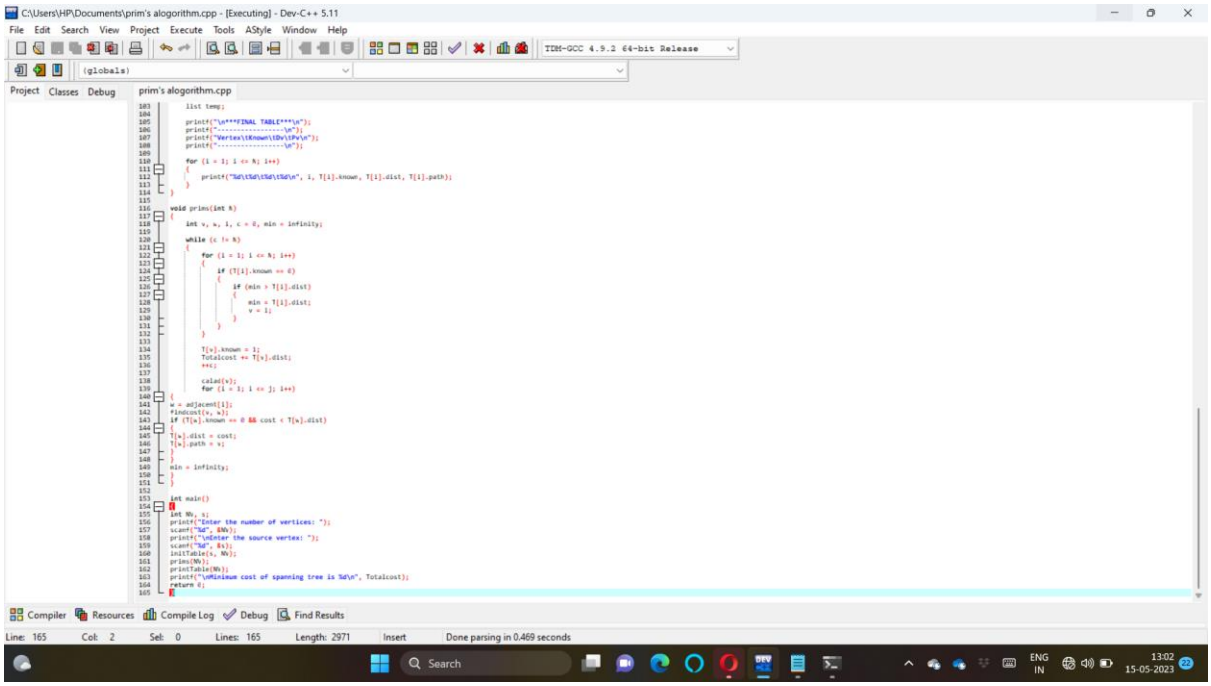
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File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
prim's alogorithm.cpp
list temp;
printf("\n***FINAL TABLE***\n");
printf("----------------\n");
printf("Vertex\tKnown\tDv\tPv\n");
printf("----------------\n");
for (i = 1; i <= N; i++)
{
print("%d\t%d\t%d\t%d\n", i, T[i].known, T[i].dist, T[i].path);
}
}
void prims(int N)
{
int v, w, i, c = 0, min = infinity;
while (c != N)
{
for (i = 1; i <= N; i++)
{
if (T[i].known == 0)
{
if (min > T[i].dist)
{
min = T[i].dist;
v = i;
}
}
}
T[v].known = 1;
Totalcost += T[v].dist;
++c;
calad(v);
for (i = 1; i <= j; i++)
{
w = adjacent[i];
findcost(v, w);
if (T[w].known == 0 && cost < T[w].dist)
{
T[w].dist = cost;
T[w].path = v;
}
}
min = infinity;
}
}
int main()
{
int Nv, s;
printf("Enter the number of vertices: ");
scanf("%d", &Nv);
printf("\nEnter the source vertex: ");
scanf("%d", &s);
initTable(s, Nv);
prims(Nv);
printTable(Nv);
printf("\nMinimum cost of spanning tree is %d\n", Totalcost);
return 0;
}
Compiler Resources Compile Log Debug Find Results
Line: 165 Col: 2 Sel: 0 Lines: 165 Length: 2971 Insert Done parsing in 0.469 seconds
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