```
NAME: TANISHQ GUPTA
CLASS: SE
BATCH: A4
ROLL NO.: SEAD21168
C14
CODE:
#include <iostream>
  using namespace std;
    int main() {
    int n, i, j, k, row, col, mincost=0, min;
    char op;
    cout<<"Enter no. of vertices: ";
    cin>>n;
    int cost[n][n];
    int visit[n];
    for(i=0; i<n; i++)
       visit[i] = 0;
    for(i=0; i<n; i++)
       for(int j=0; j<n; j++)
         cost[i][j] = -1;
    for(i=0; i<n; i++)
       for(j=i+1; j<n; j++)
       {
         cout<<"Do you want an edge between "<<i+1<<" and "<<j+1<<": ";
         //use 'i' & 'j' if your vertices start from 0
         cin>>op;
         if(op=='y' || op=='Y')
           cout<< "Enter weight: ";</pre>
           cin>>cost[i][j];
```

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cost[j][i] = cost[i][j];
    }
  }
}
visit[0] = 1;
for(k=0; k<n-1; k++)
  min = 999;
  for(i=0; i<n; i++)
  {
    for(j=0; j<n; j++)
    {
      if(visit[i] == 1 \&\& visit[j] == 0)
      {
         if(cost[i][j] != -1 && min>cost[i][j])
         {
            min = cost[i][j];
           row = i;
           col = j;
         }
      }
    }
  }
  mincost += min;
  visit[col] = 1;
  cost[row][col] = cost[col][row] = -1;
  cout<<row+1<<"->"<<col+1<<endl;
cout<<"\nMin. Cost: "<<mincost;
return 0;
```

}

OUTPUT:

```
PS C:\Users\tanis\OneDrive\Desktop\Tanishq_Gupta_21168> g++ .\c14.cpp
PS C:\Users\tanis\OneDrive\Desktop\Tanishq_Gupta_21168> .\a.exe
Enter no. of vertices: 3
Do you want an edge between 1 and 2: y
Enter weight: 12
Do you want an edge between 1 and 3: y
Enter weight: 5
Do you want an edge between 2 and 3: y
Enter weight: 6
1->3
3->2
Min. Cost: 11
PS C:\Users\tanis\OneDrive\Desktop\Tanishq_Gupta_21168>
```