Assignment-5 Roll-20BCS142

Question 1

```
#include<iostream>
using namespace std;
void Sort(int arr[],int n){
      for(int i=0;i<n-1;i++){
             for(int j=0;j<n-1-i;j++){
                    if(arr[j]>arr[j+1]){
                           int t=arr[j];
                            arr[j]=arr[j+1];
                            arr[j+1]=t;
                     }
             }
       }
}
int main(){
 int n;
 cout<<"Enter the number ";
 cin>>n;
 int arr[n];
 for(int i=0;i<n;i++)</pre>
  cin>>arr[i];
```

```
Sort(arr,n);
    for(int i=0;i<n;i++)
    cout<<arr[i]<<" ";
return 0;
}</pre>
```

Output of 1st

Question no.2

```
#include <iostream>
using namespace std;
void Swap(string &p,string &q){
    string t=p;
    p=q;
```

```
q=t;
}
void Sort(string s[],int n){
      for(int i=0;i<n-1;i++){
              for(int j=0;j<n-i-1;j++){
                     if(s[j]>s[j+1])
                     Swap(s[j],s[j+1]);
              }
      }
}
main(){
 string s;
 cout<<"Enter the sentence for sorting \n";</pre>
 getline(cin,s);
 s+=" ";
 string t[20];
 string p="";
 int j=0;
 for(int i=0;i<s[i]!='\0';i++){
      if(s[i]==' '){
       t[j++]=(p+" ");
        p="";
```

Output of 2nd

```
Tenter the sentence for sorting
my name is navneet kumar
is kumar my name navneet

Process exited after 19.66 seconds with return value 0

Press any key to continue . . .
```

Question 3

```
#include <iostream>
using namespace std;
struct points{
      int x,y;
};
void Swap(points &p,points &q){
      points t;
  t.x=p.x,t.y=p.y;
  p.x=q.x ,p.y=q.y;
  q.x=t.x ,q.y=t.y;
}
void Sort(points s[],int n){
      for(int i=0;i<n-1;i++){
             for(int j=0;j<n-i-1;j++){
                    if(s[j].y>s[j+1].y)
                    Swap(s[j],s[j+1]);
                    if(s[j].y==s[j+1].y &&(s[j].x)>s[j+1].x)
                    Swap(s[j],s[j+1]);
             }
      }
}
```

```
int main()
{
      int n;
 cout<<"Enter the no. of points \n";
 cin>>n;
 points p[n];
 for(int i=0.;i<n;i++){
      cin>>p[i].x>>p[i].y;
 }
 Sort(p,n);
for(int i=0;i<n;i++)</pre>
{
      cout<<"("<<p[i].x<<","<<p[i].y<<")"<<" ";
}
      return 0;
}
```

Output of 3rd