

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace IdentifiableObject
8 {
9     public class CommandHandler:Command
10     {
11         List<Command> _commands;
12
13         public CommandHandler() : base(new string[] { "command" })
14         {
15             _commands = new List<Command>();
16             _commands.Add(new LookCommand());
17             _commands.Add(new MoveCommand());
18         }
19
20         public override string Execute(Player p, string[] text)
21         {
22             foreach (Command c in _commands)
23             {
24                 if (c.AreYou(text[0].ToLower()))
25                 {
26                     return c.Execute(p, text);
27                 }
28             }
29             return "Your command is wrong";
30         }
31     }
32 }
33
```

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace IdentifiableObject
8 {
9     public class Locations:GameObject, IHaveInventory
10    {
11        private Inventory _item_in_location;
12        private List<Path> _paths;
13
14        public Locations(string name, string desc):base(new string[] { "location" }, name, desc)
15        {
16            _item_in_location = new Inventory();
17            _paths = new List<Path>();
18        }
19
20        public Locations(string name, string desc, List<Path> paths) : this (name, desc)
21        {
22            _paths = paths;
23        }
24
25        public GameObject Locate(string id)
26        {
27            if(AreYou(id))
28            {
29                return this;
30            }
31            else
32            {
33                foreach (Path p in _paths)
34                {
35                    if (p.AreYou(id))
36                    {
37                        return p;
38                    }
39                }
40                return _item_in_location.Fetch(id);
41            }
42        }
43
44        public Inventory ItemInLocation
45        {
46            get
47            {
```

```
48         return _item_in_location;
49     }
50 }
51
52 public override string FullDescription
53 {
54     get
55     {
56         return $"Welcome, {base.FullDescription}\nIn this location  ➤
57             you can see:\n{ItemInLocation.ItemList} ";
58     }
59 }
60 public void AddPath(Path path)
61 {
62     _paths.Add(path);
63 }
64
65
66
67
68 public override string ShortDescription
69 {
70     get
71     {
72         return "You are in a " + Name;
73     }
74 }
75 }
76 }
77
```

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace IdentifiableObject
8 {
9     public class MoveCommand:Command
10    {
11        public MoveCommand():base(new string[] {"move"})
12        {
13
14        }
15
16        public override string Execute(Player p, string[] text)
17        {
18
19            if(text.Length==2)
20            {
21                if(text[0].ToLower()=="move")
22                {
23                    GameObject path = p.Location.Locate(text[1]);
24                    if(path!=null)
25                    {
26                        if(path is not Path _path)
27                        {
28                            return "Can't find the " + path.Name;
29                        }
30                        else
31                        {
32                            p.Move((Path)path);
33                            return $"You go {path.FirstId}\nWent through
34                                the {path.Name}\nArrived to the {p.Location.Name}";
35                        }
36                    }
37                    else
38                    {
39                        return "There's no path like that";
40                    }
41                }
42                else
43                {
44                    return "Wrong format of the command";
45                }
46            }
47            else
48            {
49                return "I don't know how to move like that.";
50            }
51        }
52    }
53 }
```

```
49         }  
50     }  
51 }  
52 }  
53
```

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace IdentifiableObject
8 {
9     public class Path:GameObject
10    {
11        private bool _block;
12        private Locations _current_location;
13        private Locations _destination;
14
15        public Path(string[] ids, string name, string desc, Locations current_location, Locations destination):base(ids, name, desc)
16        {
17            _block = false;
18            _current_location = current_location;
19            _destination = destination;
20            AddIdentifier("path");
21            foreach (string s in name.Split(" "))
22            {
23                AddIdentifier(s);
24            }
25        }
26
27        public Locations Destination
28        {
29            get
30            {
31                return _destination;
32            }
33        }
34
35        public override string FullDescription
36        {
37            get
38            {
39                return Name;
40            }
41        }
42
43        public bool Block
44        {
45            get
46            {
47                return _block;
48            }
49        }
50    }
51 }
```

```
49         set
50         {
51             _block = value;
52         }
53     }
54 }
55 }
56
```

```
1 using IdentifiableObject;
2 using System;
3
4 class Program
5 {
6     static void Main(string[] args)
7     {
8         string player_name, player_desc;
9         Player player;
10        Bag player_bag=new Bag(new string[]{"bag"}, "Thang's bag", "bag
            number 104776473");
11        Command command = new CommandHandler();
12        Locations guild = new Locations("Guild", "This is the city's
            guild");
13
14        Locations shop = new Locations("equipment shop", "place to sell
            tools");
15        IdentifiableObject.Path guild_to_shop = new IdentifiableObject.Path
            (new string[] { "south" }, "Guild's Door", "Cross through the
            door", guild, shop);
16        IdentifiableObject.Path shop_to_guild = new IdentifiableObject.Path
            (new string[] { "north" }, "Shop's Door", "Cross through the
            door", shop, guild);
17        guild.AddPath(guild_to_shop);
18        shop.AddPath(shop_to_guild);
19
20        Console.WriteLine("Please enter your name: ");
21        player_name = Console.ReadLine();
22        Console.WriteLine("Please enter your description: ");
23        player_desc = Console.ReadLine();
24
25        player = new Player(player_name, player_desc);
26
27        Item shield = new Item(new string[] { "shield" }, "a shield",
            "Shield level 1");
28        Item shovel = new Item(new string[] { "shovel" }, "a shovel",
            "Shovel level 2");
29
30        player.Inventory.Put(shield);
31        player.Inventory.Put(shovel);
32
33        player.Inventory.Put(player_bag);
34
35        Item blanket = new Item(new string[] { "blanket" }, "a blanket",
            "winter blanket");
36        player_bag.Inventory.Put(blanket);
37
38        player.Location = guild;
39
```



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40     Item sword = new Item(new string[] { "sword" }, "a sword", "Sword"
        level 10");
41     Item staff = new Item(new string[] { "staff" }, "a staff", "Staff"
        level 20");
42     guild.ItemInLocation.Put(sword);
43     guild.ItemInLocation.Put(staff);
44
45     Bag b2= new Bag(new string[]{ "b2"}, "bag2", "bag number 2");
46     player_bag.Inventory.Put(b2);
47
48
49     while (true)
50     {
51         Console.Write("Orders: ");
52         string user_input = Console.ReadLine();
53
54         Console.WriteLine(command.Execute(player, user_input.Split()));
55
56     }
57 }
58 }

```

```

Please enter your name: thang
Please enter your description: 104776473
Orders: move south
You go south
Went through the Guild's Door
Arrived to the equipment shop
Orders: look at shield
Shield level 1
Orders: look at blanket
I can't find the blanket
Orders: look at blanket in bag
winter blanket
Orders: |

```



