```
mysql> create table astronauts(Name varchar(20),Country varchar(30),mission varchar(50),age_during_accomplishment int(50),Accomplishment varchar(100));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> Insert into astronauts values("Yuri Garagin","Soviet Union","Vostok 1",27,"First man in space");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into astronauts values("Alan Shepard","America","Mercury Redstone 3",47,"First American in Space");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into astronauts values("John Glenn","America","Mercury-Altas 6",77,"First American in Space orbit");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Valentina Tereshkova","Russia","Vostok 6",26,"First Woman in Space");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Aleksey Leonov","Soviet Union","Voshkod 2",30,"First Person to walk in Space");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Neil Armstrong","America","Apollo 11",38,"First person to walk on moon");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into astronauts values("Rakesh Sharma","India","Soyuz T",40,"First Indian in space");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Kalpana Chawla","India","STS_107",40,"First Indian Woman in space");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Yi So-Yeon","Korea","Soyuz TMA",30,"First Korean woman in Space");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into astronauts values("Jean-Loup Chretien","France","Soyuz T-6",41,"First French man in space");
Query OK, 1 row affected (0.00 sec)
```

```
mysql> create table star(Name_of_Star varchar(20),Distance_from_Earth_in_ly float(29,4),Star_Type varchar(20),Stage_of_life varchar(30),Part_of_constellation varchar(40));
Query OK, 0 rows affected, 1 warning (0.02 sec)
```

```
mysql> Insert into star values("Polaris",434.0000,"Dwarf","Red Giant","Ursa Major");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Sirius A",8.6100,"Super Giant","Red Giant","Canis Major");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Alpha Centurai",4.3600,"Red Dwarf","Red Giant","Centaurus");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Sun",151.8900,"Yellow Dwarf","Red Giant","None");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Rigel",700.0000,"Hot Blue","Blue Supergiant","Orion");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Herschall Garnet",2838.0000,"Red Giant","Red Supergiant","Cephus");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into star values("Vega",25.0000,"Blue","Giant","Lyra");
Query OK, 1 row affected (0.00 sec)

mysql> Insert into star values("Herbig Haro 34",1500.0000,"Not known","Protostar","Orion A");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into star values("Cat's Eye",3262.0000,"Planetray","Planetary Nebulae","Draco");
Query OK, 1 row affected (0.00 sec)
```

```
mysql> create table planets(Name varchar(20),Distance_from_Earth float(10,4),Number_of_moons int(4),Length_of_year_in_Earth_Days int(20),No_of_Human_Spacecraft int(30));
Query OK, 0 rows affected, 4 warnings (0.01 sec)
```

```
mysql> Insert into planets values("Mercury",200.5900,0,88,2);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into planets values("Venus",197.6700,0,225,42);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into planets values("Earth",0.0000,1,365,6000);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into planets values("Mars",383.6200,2,687,18);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into planets values("Jupiter",609.5100,79,4333,9);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into planets values("Saturn",1330.0000,82,10759,4);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into planets values("Uranus",2966.0000,27,30687,1);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into planets values("Neptune",4309.0000,14,60190,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> create table admin(sno int(11),name varchar(40),password varchar(40));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> insert into admin values(1,"Mayank Kejariwal","mayank");
Query OK, 1 row affected (0.00 sec)

mysql> insert into admin values(1,"Hardik Brijaria","hardik");
Query OK, 1 row affected (0.00 sec)
```

```
mysql> create table users(Name varchar(40),Age int(11));
Query OK, 0 rows affected, 1 warning (0.03 sec)
```

```
mysql> show tables;
+-------------------+
| Tables_in_xplrspace |
+-------------------+
| admin             |
| astronauts        |
| constellations    |
| galaxies          |
| planets           |
| star              |
| users             |
+-------------------+
7 rows in set (0.00 sec)
```

```
mysql> create table galaxies(Name varchar(100),Diameter_in_Light_year int(11));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> Insert into galaxies values("Milky Way",100000);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Canis Major Dwarf",NULL);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Darco II",120);
Query OK, 1 row affected (0.01 sec)

mysql> Insert into galaxies values("Triangulum II",NULL);
Query OK, 1 row affected (0.02 sec)

mysql> Insert into galaxies values("Reticulum II",378);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Segue 2",220);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Carina II",590);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Carina III",200);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Sagittarius Dwarf Sphr SagDEG",10000);
Query OK, 1 row affected (0.00 sec)

mysql> Insert into galaxies values("Large Magellanic Cloud (LMC)",14000);
Query OK, 1 row affected (0.01 sec)
```

MySQL tables

```
mysql> Select * from constellations;
+-------------+----------------+----------------+
| name        | brightest_star | area_sq_degree |
+-------------+----------------+----------------+
| Andromeda   | Alpheratz      |            722 |
| Aries       | Hamal          |            441 |
| Antlia      | Alpha Antlia   |            239 |
| Cancer      | Beta Cnc       |            506 |
| Capricornus | Deneb          |            414 |
| Phoenix     | Alpha Phe      |            469 |
| Tauras      | Aldebaran      |            797 |
| Scorpius    | Antares        |            497 |
| Tucana      | Alpha Tucane   |            295 |
| Virgo       | Spica          |           1294 |
+-------------+----------------+----------------+
10 rows in set (0.00 sec)
```

```
mysql> select * from astronauts;
+---------------------+--------------+-------------------+----------------------------+-------------------------------+
| Name                | Country      | mission           | age_during_accomplishment  | Accomplishment                |
+---------------------+--------------+-------------------+----------------------------+-------------------------------+
| Yuri Garagin        | Soviet Union | Vostok 1          |                        27  | First man in space            |
| Alan Shepard        | America      | Mercury Redstone 3|                        47  | First American in Space       |
| John Glenn          | America      | Mercury-Altas 6   |                        77  | First American in Space orbit |
| Valentina Tereshkova| Russia       | Vostok 6          |                        26  | First Woman in Space          |
| Aleksey Leonov      | Soviet Union | Voshkod 2         |                        30  | First Person to walk in Space |
| Neil Armstrong      | America      | Apollo 11         |                        38  | First person to walk on moon  |
| Rakesh Sharma       | India        | Soyuz T           |                        40  | First Indian in space         |
| Kalpana Chawla      | India        | STS_107           |                        40  | First Indian Woman in space   |
| Yi So-Yeon          | Korea        | Soyuz TMA         |                        30  | First Korean woman in Space   |
| Jean-Loup Chretien  | France       | Soyuz T-6         |                        41  | First French man in space     |
+---------------------+--------------+-------------------+----------------------------+-------------------------------+
10 rows in set (0.00 sec)
```

```
mysql> select * from star;
+-----------------+-----------------------+-------------+--------------------+----------------------+
| Name_of_Star    | Distance_from_Earth_in_ly | Star_Type | Stage_of_life      | Part_of_constellation |
+-----------------+-----------------------+-------------+--------------------+----------------------+
| Polaris         |              434.0000 | Dwarf       | Red Giant          | Ursa Major           |
| Sirius A        |                8.6100 | Super Giant | Red Giant          | Canis Major          |
| Alpha Centurai  |                4.3600 | Red Dwarf   | Red Giant          | Centaurus            |
| Sun             |              151.8900 | Yellow Dwarf| Red Giant          | None                 |
| Rigel           |              700.0000 | Hot Blue    | Blue Supergiant    | Orion                |
| Herschall Garnet|             2838.0000 | Red Giant   | Red Supergiant     | Cephus               |
| Vega            |               25.0000 | Blue        | Giant              | Lyra                 |
| Herbig Haro 34  |             1500.0000 | Not known   | Protostar          | Orion A              |
| Cat's Eye       |             3262.0000 | Planetray   | Planetary Nebulae  | Draco                |
+-----------------+-----------------------+-------------+--------------------+----------------------+
9 rows in set (0.00 sec)
```

```
mysql> select * from planets;
+----------+--------------------+------------------+--------------------------+-----------------------+
| Name     | Distance_from_Earth | Number_of_moons | Length_of_year_in_Earth_Days | No_of_Human_Spacecraft |
+----------+--------------------+------------------+--------------------------+-----------------------+
| Mercury  |           200.5900 |                0 |                       88 |                     2 |
| Venus    |           197.6700 |                0 |                      225 |                    42 |
| Earth    |             0.0000 |                1 |                      365 |                  6000 |
| Mars     |           383.6200 |                2 |                      687 |                    18 |
| Jupiter  |           609.5100 |               79 |                     4333 |                     9 |
| Saturn   |          1330.0000 |               82 |                    10759 |                     4 |
| Uranus   |          2966.0000 |               27 |                    30687 |                     1 |
| Neptune  |          4309.0000 |               14 |                    60190 |                     1 |
+----------+--------------------+------------------+--------------------------+-----------------------+
8 rows in set (0.00 sec)
```

```
mysql> select * from galaxies;
+-------------------------------+----------------------+
| Name                          | Diameter_in_Light_year |
+-------------------------------+----------------------+
| Milky Way                     |               100000 |
| Canis Major Dwarf             |                 NULL |
| Darco II                      |                  120 |
| Triangulum II                 |                 NULL |
| Reticulum II                  |                  378 |
| Segue 2                       |                  220 |
| Carina II                     |                  590 |
| Carina III                    |                  200 |
| Sagittarius Dwarf Sphr SagDEG |                10000 |
| Large Magellanic Cloud (LMC)  |                14000 |
+-------------------------------+----------------------+
10 rows in set (0.00 sec)
```

```
mysql> select * from users;
+-------+------+
| Name  | Age  |
+-------+------+
| Mudit |   17 |
+-------+------+
1 row in set (0.00 sec)
```

```
mysql> select * from admin;
+------+------------------+----------+
| sno  | name             | password |
+------+------------------+----------+
|    1 | Mayank Kejariwal | mayank   |
|    1 | Hardik Brijaria  | hardik   |
+------+------------------+----------+
2 rows in set (0.00 sec)
```
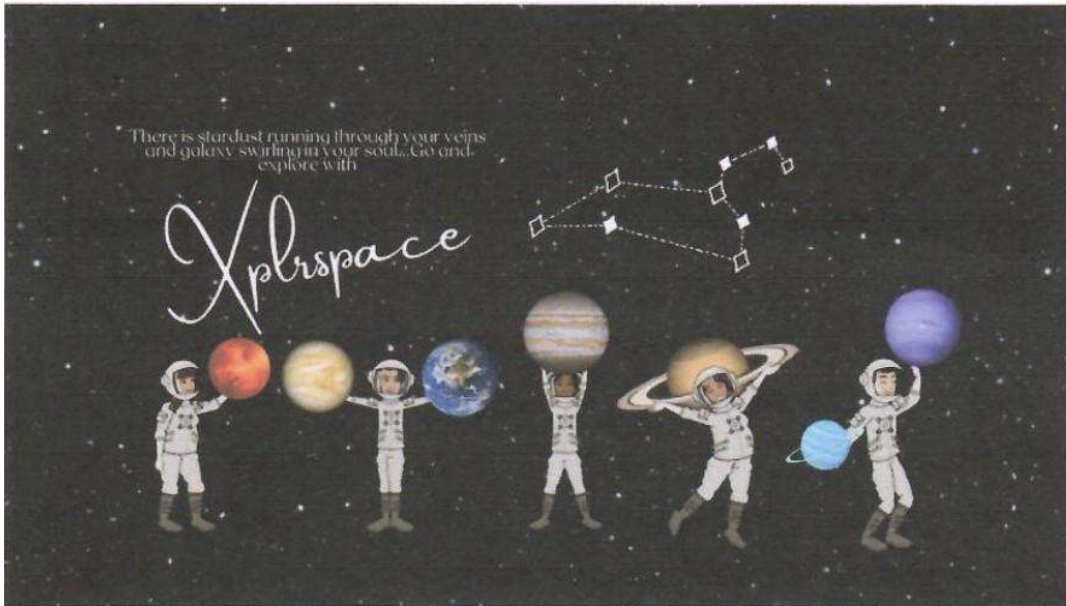
Main Program

Working as an admin

```
Successfully connected
Are you an admin or a user?Admin
Welcome!
Enter username:Mayank Kejariwal
Enter your password:mayank
1.Add
2.Delete
3.Exit
Enter choice:1
Add
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option1
You have decided to add records in stars table
enter star name to be added:Star1
enter distance from earth in light years:213
enter type of star:new
enter stage of life:dwarf
enter constellation name:Aries
record added
do you want to add more yes/no?no
Do you wish to see the updated table yes/no?yes
no of rows 10
Name    :Distance_from_Earth    :Star_Type    :Stage_of_life  :Part_of_constellation
Polaris : 434.0 : Dwarf : Red Giant : Ursa Major
Sirius A : 8.61 : Super Giant : Red Giant : Canis Major
Alpha Centurai : 4.36 : Red Dwarf : Red Giant : Centaurus
Sun : 151.89 : Yellow Dwarf : Red Giant : None
Rigel : 700.0 : Hot Blue : Blue Supergiant : Orion
Herschall Garnet : 2838.0 : Red Giant : Red Supergiant : Cephus
Vega : 25.0 : Blue : Giant : Lyra
Herbig Haro 34 : 1500.0 : Not known : Protostar : Orion A
Cat's Eye : 3262.0 : Planetray : Planetary Nebulae : Draco
Star1 : 213.0 : new : dwarf : Aries
1.Add
2.Delete
3.Exit
Enter choice:1
```

```
Add
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option2
You have decided to add records in galaxies table
enter galaxy name to be added:Silky way
enter diameter in light year(int):234
woah, record added
do you want to add more yes/no?no
Do you wish to see the updated table yes/no?yes
no of rows 11
name:diameter_in_light_year
Milky Way : 100000
Canis Major Dwarf : None
Darco II : 120
Triangulum II : None
Reticulum II : 378
Segue 2 : 220
Carina II : 590
Carina III : 200
Sagittarius Dwarf Sphr SagDEG : 10000
Large Magellanic Cloud (LMC) : 14000
Silky way : 234
```

```
1.Add
2.Delete
3.Exit
Enter choice:1
Add
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option3
You have decided to add records in astronauts table
enter astronaut name to be added:Sam Veiner
enter from which country:USA
enter mission:Mars 45
enter age of accomplishment:23
enter accomplishment(text):Youngest man on mars
woah, record added
do you want to add more yes/no?no
Do you wish to see the updated table yes/no?yes
no of rows 11
Name:Country:mission:age_during_accomplishment:Accomplishment
Yuri Garagin : Soviet Union : Vostok 1 : 27 : First man in space
Alan Shepard : America : Mercury Redstone 3 : 47 : First American in Space
John Glenn : America : Mercury-Altas 6 : 77 : First American in Space orbit
Valentina Tereshkova : Russia : Vostok 6 : 26 : First Woman in Space
Aleksey Leonov : Soviet Union : Voshkod 2 : 30 : First Person to walk in Space
Neil Armstrong : America : Apollo 11 : 38 : First person to walk on moon
Rakesh Sharma : India : Soyuz T : 40 : First Indian in space
Kalpana Chawla : India : STS_107 : 40 : First Indian Woman in space
Yi So-Yeon : Korea : Soyuz TMA : 30 : First Korean woman in Space
Jean-Loup Chretien : France : Soyuz T-6 : 41 : First French man in space
Sam Veiner : USA : Mars 45 : 23 : Youngest man on mars
1.Add
2.Delete
3.Exit
Enter choice:1
Add
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option4
You have decided to add records in planets table
enter planet name to be added:Pepranus
enter distance from earth in light years:256
enter no of moons:45
enter length of year:243
enter no of human spacecrafts:21
woah, record added
do you want to add more yes/no?no
Do you wish to see the updated table yes/no?yes
no of rows 9
Name:Distance_from_Earth:Number_of_moons:Length_of_Year_in_Earth_Days:No_of_Human_Spacecraft
Mercury : 200.59 : 0 : 88 : 2
Venus : 197.67 : 0 : 225 : 42
Earth : 0.0 : 1 : 365 : 6000
Mars : 383.62 : 2 : 687 : 18
Jupiter : 609.51 : 79 : 4333 : 9
Saturn : 1330.0 : 82 : 10759 : 4
Uranus : 2966.0 : 27 : 30687 : 1
Neptune : 4309.0 : 14 : 60190 : 1
Pepranus : 256.0 : 45 : 243 : 21
1.Add
2.Delete
3.Exit
Enter choice:1
Add
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option5
You have decided to add records in constellations table
enter constellation name to be added:Aprenus
enter brightest star(text):Spold
enter area in light years:435
woah, record added
do you want to add more yes/no?no
Do you wish to see the updated table yes/no?yes
```

```
no of rows 12
name:brightest_star:area_sq_degree
Andromeda : Alpheratz : 722
Aries : Hamal : 441
Antlia : Alpha Antlia : 239
Cancer : Beta Cnc : 506
Capricornus : Deneb : 414
Phoenix : Alpha Phe : 469
Tauras : Aldebaran : 797
Scorpius : Antares : 497
Tucana : Alpha Tucane : 295
Apernus : Spold : 435
Virgo : Spica : 1294
Aprenus : Spold : 435
1.Add
2.Delete
3.Exit
Enter choice:2
Delete
                              1.Stars
                              2.Galaxy
                              3.Astronaut
                              4.Planet
                              5.Constellations
Enter an option1
You have decided to delete a record from table stars
Enter the name of star to be deleted:Star1
No of rows 1
Do you wish to delete record yes/no:no
No record deleted
Do you wish to see the updated table yes/no?yes
no of rows 9
Name     :Distance_from_Earth     :Star_Type     :Stage_of_life  :Part_of_constellation
Polaris : 434.0 : Dwarf : Red Giant : Ursa Major
Sirius A : 8.61 : Super Giant : Red Giant : Canis Major
Alpha Centurai : 4.36 : Red Dwarf : Red Giant : Centaurus
Sun : 151.89 : Yellow Dwarf : Red Giant : None
Rigel : 700.0 : Hot Blue : Blue Supergiant : Orion
Herschall Garnet : 2838.0 : Red Giant : Red Supergiant : Cephus
Vega : 25.0 : Blue : Giant : Lyra
Herbig Haro 34 : 1500.0 : Not known : Protostar : Orion A
Cat's Eye : 3262.0 : Planetray : Planetary Nebulae : Draco
1.Add
2.Delete
3.Exit
Enter choice:2
Delete
                              1.Stars
                              2.Galaxy
                              3.Astronaut
                              4.Planet
                              5.Constellations
Enter an option2
You have decided to delete a record from table galaxies
Enter the name of galaxy to be deleted:Silky way
No of rows 1
Do you wish to delete record yes/no:no
No record deleted
Do you wish to see the updated table yes/no?yes
no of rows 10
name:diameter_in_light_year
Milky Way : 100000
Canis Major Dwarf : None
Darco II : 120
Triangulum II : None
Reticulum II : 378
Segue 2 : 220
Carina II : 590
Carina III : 200
Sagittarius Dwarf Sphr SagDEG : 10000
Large Magellanic Cloud (LMC) : 14000
1.Add
2.Delete
3.Exit
Enter choice:2
Delete
                              1.Stars
                              2.Galaxy
                              3.Astronaut
                              4.Planet
                              5.Constellations
```

```
Enter an option3
You have decided to delete a record from table astronauts
Enter the name of astronaut to be deleted:Sam Veiner
No of rows 1
Do you wish to delete record yes/no:no
No record deleted
Do you wish to see the updated table yes/no?yes
no of rows 10
Name:Country:mission:age_during_accomplishment:Accomplishment
Yuri Garagin : Soviet Union : Vostok 1 : 27 : First man in space
Alan Shepard : America : Mercury Redstone 3 : 47 : First American in Space
John Glenn : America : Mercury-Altas 6 : 77 : First American in Space orbit
Valentina Tereshkova : Russia : Vostok 6 : 26 : First Woman in Space
Aleksey Leonov : Soviet Union : Voshkod 2 : 30 : First Person to walk in Space
Neil Armstrong : America : Apollo 11 : 38 : First person to walk on moon
Rakesh Sharma : India : Soyuz T : 40 : First Indian in space
Kalpana Chawla : India : STS_107 : 40 : First Indian Woman in space
Yi So-Yeon : Korea : Soyuz TMA : 30 : First Korean woman in Space
Jean-Loup Chretien : France : Soyuz T-6 : 41 : First French man in space
1.Add
2.Delete
3.Exit
Enter choice:2
Delete
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option4
You have decided to delete a record from table planets
Enter the name of planet to be deleted:Pepranus
No of rows 1
Do you wish to delete record yes/no:no
No record deleted
Do you wish to see the updated table yes/no?yes
no of rows 8
Name:Distance_from_Earth:Number_of_moons:Length_of_Year_in_Earth_Days:No_of_Human_Spacecraft
Mercury : 200.59 : 0 : 88 : 2
Venus : 197.67 : 0 : 225 : 42
Earth : 0.0 : 1 : 365 : 6000
Mars : 383.62 : 2 : 687 : 18
Jupiter : 609.51 : 79 : 4333 : 9
Saturn : 1330.0 : 82 : 10759 : 4
Uranus : 2966.0 : 27 : 30687 : 1
Neptune : 4309.0 : 14 : 60190 : 1
1.Add
2.Delete
3.Exit
Enter choice:2
Delete
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter an option5
You have decided to delete a record from table constellations
Enter the name of constllation to be deleted:Aprenus
No of rows 1
Do you wish to delete record yes/no:no
No record deleted
Do you wish to see the updated table yes/no?yes
no of rows 11
name:brightest_star:area_sq_degree
Andromeda : Alpheratz : 722
Aries : Hamal : 441
Antlia : Alpha Antlia : 239
Cancer : Beta Cnc : 506
Capricornus : Deneb : 414
Phoenix : Alpha Phe : 469
Tauras : Aldebaran : 797
Scorpius : Antares : 497
Tucana : Alpha Tucane : 295
Apernus : Spold : 435
Virgo : Spica : 1294
1.Add
2.Delete
3.Exit
Enter choice:3
You have decided to exit the program
```

Working as a user

```
Successfully connected
Are you an admin or a user?User
Enter your nameMudit
Enter your age17
1.Search
2.Display
3.Graph
Enter choice1
Search
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice1
You are on the way to reach stars
Enter the star's name to be searched:Sun
No of rows 1

Star: Sun
Distance from earth in ly: 151.89
Star Type: Yellow Dwarf
Stage of life: Red Giant
Part of Constellation: None
1.Search
2.Display
3.Graph
Enter choice1
Search
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice2
You are on the way to reach galaxies
Enter the Galaxies' name to be searched:Milky way
No of rows 1

Galaxy's name: Milky Way
Diameter in ly: 100000
1.Search
2.Display
3.Graph
Enter choice1
Search
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice3
You are on the path of Astronaut's Knowledge
Enter the Astronaut's name to be searched:Kalpana Chawla
No of rows 1

Name of Astronaut: Kalpana Chawla
Country: India
Mission: STS_107
age_during_accomplishment: 40
Accomplishment: First Indian Woman in space
1.Search
2.Display
3.Graph
Enter choice1
Search
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
```

```
Enter your choice4
You are on the way to jump over to planets
Enter the planet's name to be searched:Jupiter
No of rows 1


Planet: Jupiter
Distance from Earth in million km: 609.51
No. of moons: 79
Length of year 4333
No. of Human Spacecraft: 9
1.Search
2.Display
3.Graph
Enter choice1
Search
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice5
You are on the way to play in the constellations
Enter the Constellation's name to be searched:Aries
No of rows 1


Constellation Name: Aries
Brightest Star: Hamal
Area in square degree: 441
1.Search
2.Display
3.Graph
Enter choice2
Display
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice1
You will soon get the data of stars
no of rows 9
Name    :Distance_from_Earth    :Star_Type    :Stage_of_life  :Part_of_constellation
Polaris : 434.0 : Dwarf : Red Giant : Ursa Major
Sirius A : 8.61 : Super Giant : Red Giant : Canis Major
Alpha Centurai : 4.36 : Red Dwarf : Red Giant : Centaurus
Sun : 151.89 : Yellow Dwarf : Red Giant : None
Rigel : 700.0 : Hot Blue : Blue Supergiant : Orion
Herschall Garnet : 2838.0 : Red Giant : Red Supergiant : Cephus
Vega : 25.0 : Blue : Giant : Lyra
Herbig Haro 34 : 1500.0 : Not known : Protostar : Orion A
Cat's Eye : 3262.0 : Planetray : Planetary Nebulae : Draco
1.Search
2.Display
3.Graph
Enter choice2
Display
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice2
You will soon get the data of galaxies
no of rows 10
name:diameter_in_light_year
Milky Way : 100000
Canis Major Dwarf : None
Darco II : 120
Triangulum II : None
Reticulum II : 378
Segue 2 : 220
Carina II : 590
Carina III : 200
Sagittarius Dwarf Sphr SagDEG : 10000
Large Magellanic Cloud (LMC) : 14000
1.Search
2.Display
3.Graph
Enter choice2
Display
                        1.Stars
                        2.Galaxy
```

```
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice3
You will soon get the data of astronauts
no of rows 10
Name:Country:mission:age_during_accomplishment:Accomplishment
Yuri Garagin : Soviet Union : Vostok 1 : 27 : First man in space
Alan Shepard : America : Mercury Redstone 3 : 47 : First American in Space
John Glenn : America : Mercury-Altas 6 : 77 : First American in Space orbit
Valentina Tereshkova : Russia : Vostok 6 : 26 : First Woman in Space
Aleksey Leonov : Soviet Union : Voshkod 2 : 30 : First Person to walk in Space
Neil Armstrong : America : Apollo 11 : 38 : First person to walk on moon
Rakesh Sharma : India : Soyuz T : 40 : First Indian in space
Kalpana Chawla : India : STS_107 : 40 : First Indian Woman in space
Yi So-Yeon : Korea : Soyuz TMA : 30 : First Korean woman in Space
Jean-Loup Chretien : France : Soyuz T-6 : 41 : First French man in space
1.Search
2.Display
3.Graph
Enter choice2
Display
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice4
You will soon get the data of planets
no of rows 8
Name:Distance_from_Earth:Number_of_moons:Length_of_Year_in_Earth_Days:No_of_Human_Spacecraft
Mercury : 200.59 : 0 : 88 : 2
Venus : 197.67 : 0 : 225 : 42
Earth : 0.0 : 1 : 365 : 6000
Mars : 383.62 : 2 : 687 : 18
Jupiter : 609.51 : 79 : 4333 : 9
Saturn : 1330.0 : 82 : 10759 : 4
Uranus : 2966.0 : 27 : 30687 : 1
Neptune : 4309.0 : 14 : 60190 : 1
1.Search
2.Display
3.Graph
Enter choice2
Display
                        1.Stars
                        2.Galaxy
                        3.Astronaut
                        4.Planet
                        5.Constellations
Enter your choice5
You will soon get the data of constellations
no of rows 11
name:brightest_star:area_sq_degree
Andromeda : Alpheratz : 722
Aries : Hamal : 441
Antlia : Alpha Antlia : 239
Cancer : Beta Cnc : 506
Capricornus : Deneb : 414
Phoenix : Alpha Phe : 469
Tauras : Aldebaran : 797
Scorpius : Antares : 497
Tucana : Alpha Tucane : 295
Apernus : Spold : 435
Virgo : Spica : 1294
1.Search
2.Display
3.Graph
Enter choice3
1.Stars
2.Planet
3.Constellations
Enter your choice1
You will soon get an analytical approach towards stars through a graph
['Polaris', 'Sirius A', 'Alpha Centurai', 'Sun', 'Rigel', 'Herschall Garnet', 'Vega', 'Herbig Haro 34', "Cat's Eye"]
[434, 8, 4, 151, 700, 2838, 25, 1500, 3262]
```
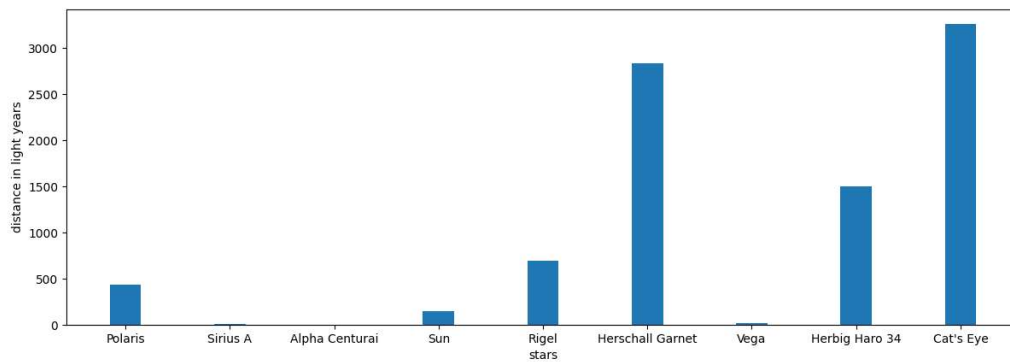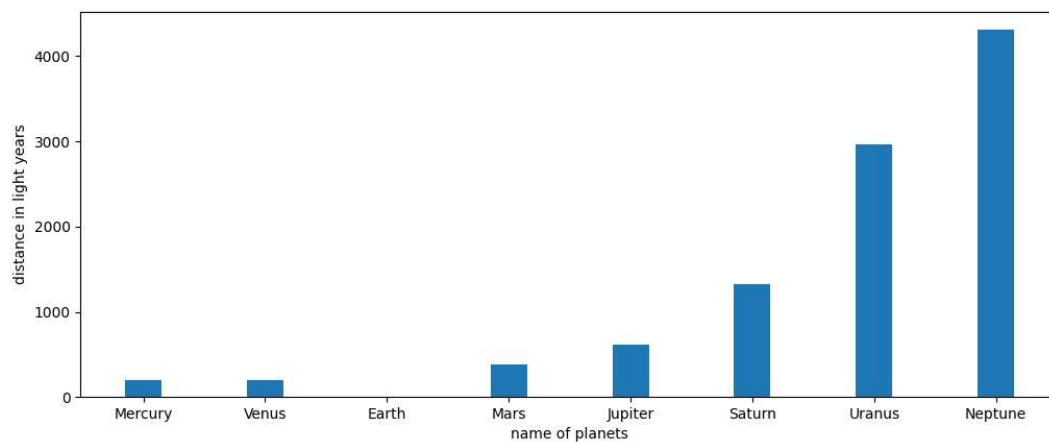
1.Search
2.Display
3.Graph
Enter choice3
1.Stars
2.Planet
3.Constellations
Enter your choice2
You will soon get an analytical approach towards planets through a graph
['Mercury', 'Venus', 'Earth', 'Mars', 'Jupiter', 'Saturn', 'Uranus', 'Neptune']
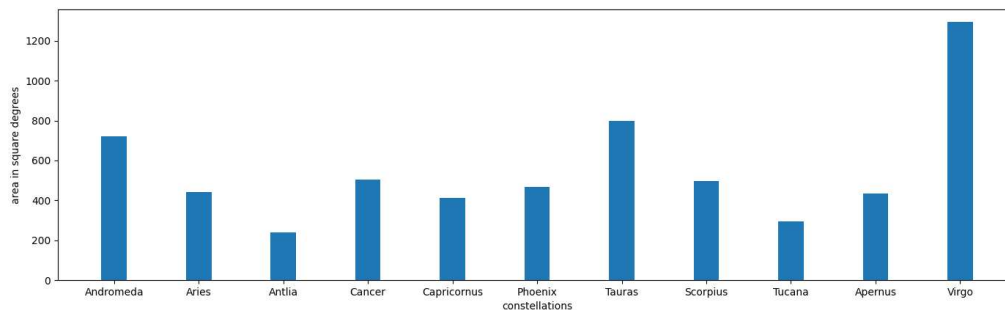[200.59, 197.67, 0.0, 383.62, 609.51, 1330.0, 2966.0, 4309.0]

1.Search
2.Display
3.Graph
Enter choice3
1.Stars
2.Planet
3.Constellations
Enter your choice3
You will soon get an analytical approach towards constellations through a graph
['Andromeda', 'Aries', 'Antlia', 'Cancer', 'Capricornus', 'Phoenix', 'Tauras', 'Scorpius', 'Tucana', 'Apernus', 'Virgo']
[722, 441, 239, 506, 414, 469, 797, 497, 295, 435, 1294]

```
1.Search
2.Display
3.Graph
4.Exit
Enter choice4
You have successfully exited the program
```