**MINI PROJECT TO IDENTIFY ASTROLOGICAL SIGNS AND BIRTHSTONE**

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**1. Introduction:**

In Western astrology, astrological signs are the twelve 30°sectors of the ecliptic, starting at the vernal equinox (one of the intersections of the ecliptic with the celestial equator). Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius and Pisces is the order of astrological signs. Each sector was named for a constellation within it in the time of naming. These divisions were also used in scientific astronomy until the 19th century in some cases.

Zodiac birthstones are also known as astral stones. The word Astral is derived from Astrology and has been an important part of holistic beliefs for centuries. Astrology is not a science, but was created originally as a method for telling time. It is used to tell us when one time has passed and also to let us know when another is coming, essentially acting as the calendar for the universe.

These periods of time are divided into twelve sections, which are believed to represent the twelve tribes of Israel in the book of Exodus. Each section, or Zodiac sign is associated with a particular gemstone. The idea is that your Astrological sign is linked to a gemstone on earth that enables the wearer to tap into his or her hidden power. Gemstones also have healing characteristics to benefit the mind and body.

**2. Aim of application:**

This project aims to design a program that helps to identify zodiac signs and birthstone of a person based on the date of birth (DOB). The following are the functionalities of this project:

1. A person can identify his astrological sign

2. A person can know his birthstone based on date and month of his/her birth.

**3. Objective:**

The main objective of this project is to know about their astrological signs and birthstones of people based on the date of birth (DOB).

**4. Problem statement and description:**

Many people show interest in knowing their astrological signs and birthstones. Some even believe wearing birthstone may help them to shape their life in good way. So this project helps you to find your astrological signs (zodiac signs) and birthstones of a person based on the date of birth of a person using the c programming language.

**5. System requirements:**

**Software:**

a) TURBO C or codeblocks is to be installed.

b) Operating system: Windows 8 or higher

**6. Research:**

For this project the following is the research information that I have gathered

**Aquarius Zodiac Stone: Garnet**

Jan 21 - Feb 18

[Garnet](https://www.gemrockauctions.com/auctions/garnet/): Friendly and humanitarian, honest and loyal, original and inventive, independent and intellectual.  Intractable and contrary, perverse and unpredictable, unemotional and detached.

**Pisces Zodiac Stone: Amethyst**

Feb 19 - Mar 20

[Amethyst](https://www.gemrockauctions.com/auctions/amethyst/): Imaginative and sensitive, compassionate and kind, selfless and unworldly, intuitive and sympathetic. Escapist and idealistic, secretive and vague, weak-willed and easily led.

**Aries Zodiac Stone: Bloodstone**

Mar 21- Apr 20

[Bloodstone](https://www.gemrockauctions.com/auctions/bloodstone/): Adventurous and energetic, pioneering and courageous, enthusiastic and confident, dynamic and quick-witted.  Selfish and quick-tempered, impulsive and impatient.

**Taurus Zodiac Stone: Sapphire**

Apr 21 - May 21

[Sapphire](https://www.gemrockauctions.com/auctions/sapphire/): Patient and reliable, warmhearted and loving, persistent and determined, placid and security loving. Jealous and possessive, resentful and inflexible, self-indulgent and greedy.

**Gemini Zodiac Stone: Agate**

May 22 - Jun 21

[Agate](https://www.gemrockauctions.com/auctions/agate/): Adaptable and versatile, communicative and witty, intellectual and eloquent, youthful and lively. Nervous and tense, superficial and inconsistent, cunning and inquisitive.

**Cancer Zodiac Stone: Emerald**

Jun 22 - Jul 22

[Emerald](https://www.gemrockauctions.com/auctions/emerald/): Emotional and loving, intuitive and imaginative, shrewd and cautious, protective and sympathetic. Changeable and moody, overemotional and touchy, clinging and unable to let go.

**Leo Zodiac Stone: Onyx**

Jul 23 - Aug 23

[Onyx](https://www.gemrockauctions.com/auctions/onyx/): Generous and warmhearted, creative and enthusiastic, broad-minded and expansive, faithful and loving. Pompous and patronizing, bossy and interfering, dogmatic and intolerant.

**Virgo Zodiac Stone: Carnelian**

Aug 24 - Sept 22

[Carnelian](https://www.gemrockauctions.com/auctions/carnelian/): Modest and shy, meticulous and reliable, practical and diligent, intelligent and analytical. Fussy and a worrier, overcritical and harsh, perfectionist and conservative.

**Libra Zodiac Stone: Chrysotile**

Sept 23 - Oct 23

Chrysotile: Diplomatic and urbane, romantic and charming, easygoing and sociable, idealistic and peaceable. Indecisive and changeable, gullible and easily influenced, flirtatious and self-indulgent.

**Scorpio Zodiac Stone: Beryl**

Oct 24 - Nov 22

[Beryl](https://www.gemrockauctions.com/auctions/beryl/): Determined and forceful, emotional and intuitive, powerful and passionate, exciting and magnetic. Jealous and resentful, compulsive and obsessive, secretive and obstinate.

**Sagittarius Zodiac Stone: Citrine**

Nov 23 - Dec 21

[Citrine](https://www.gemrockauctions.com/auctions/citrine/): Optimistic and freedom-loving, jovial and good-humored, honest and straightforward, intellectual and philosophical. Blindly optimistic and careless, irresponsible and superficial, tactless and restless.

**Capricorn Zodiac Stone: Ruby**

Dec 22 - Jan 20

[Ruby](https://www.gemrockauctions.com/auctions/ruby/): Practical and prudent, ambitious and disciplined, patient and careful, humorous and reserved. Pessimistic and fatalistic, miserly and grudging.

**7. Test plan:**

**Stass**

No

Yes

Gives the zodiac sign and birthstone of the person based on DOB

Valid

Enter the date of birth

**8. Test cases and expected results:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SI.  No | Test scenario | Test step | Expected  result | Actual  result |
| 1. | Collects the date of birth (DOB) of a person | Verifies whether the DOB is valid or not | Gives the zodiac sign and the birthstone of a person | Should obtain correct zodiac sign and the birthstone |
| 2. | If the DOB is in between November 23 and December 22 | Verifies if it is between given dates | Gives the output Sagittarius and Citrine | Shouldgive the Sagittarius and Citrine |
| 3. | If the DOB is in between December 22 and January 21 | Verifies if it is between given dates | Gives the output Capricorn and Ruby | Should give the Capricorn and Ruby |
| 4. | If the DOB is in between January 21 and February 22 | Verifies if it is between given dates | Gives the output Aquarius and Garnet | Should give Aquarius and Garnet |

**9. Conclusion:**

This project helps a person to find his/her astrological sign by entering their date and month of their birth. It also helps a person to find his birthstone and it also gives information about the features of the particular birthstone.

**10. References:**

[1] https://www.thespruce.com/your-zodiac-birthstones-chart-by-month-1274603

[2]https://www.gemrockauctions.com/learn/additional-gemstone-information/a-list-of-gemstone-birthstones-and-astrology

[3] https://en.wikipedia.org/wiki/Astrological\_sign

[4] https://www.americangemsociety.org/page/birthstones