Janmejay Singh Rathore, class 12, CMR National PU College, Bangalore, Karnataka

Janmejay loves physics and has made many theories that try to disprove contemporary theories. When he grows up, Janmejay wants to become a scientist as well as an entrepreneur. He is the captain of the basketball team in school and plays tennis in his free time. He dreams of affordable healthcare for all Indians.

Jaspreet Kaur, class 10, Police DAV Public School, Jalandhar, Punjab

Jaspreet's father is an Assistant Sub-Inspector in Punjab Police and her mother is a homemaker. She has four sisters—one set of elder twins in class 12 and another set of younger twins studying in class 4.

Jaspreet scores high in all subjects. Her hobbies include painting, singing and listening to patriotic songs.

"In life, whenever I get rejected for something good, I am actually being redirected towards something better," says Jaspreet.

She is passionate about space settlement and had won the second prize in NASA's annual contest for space settlement designs, last year. Quoting Dr APJ Abdul Kalam, she says, "Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck," says Jaspreet, who wants to become a pilot.

A colour-coded thermometer

Janmejay Singh Rathore, class 12, CMR National PU College, Bangalore, Karnataka and Jaspreet Kaur, class 10, Police DAV Public School, Jalandhar, Punjab

Reading a conventional thermometer is sometimes difficult for children and people with little or no education

Janmejay has suggested a colour-coded thermometer, which not only gives out the temperature—red for emergency, orange for intermediate temperature and green for normal — but also gives out precautionary measures and even dials an ambulance in case of an emergency! The thermometer also has a speaker that can read out the temperature through a voice message for those who are partially or completely visually challenged.

"This is not limited to only humans but can also be used for dairy and poultry animals. I am also working on connecting the thermometer from the nerves under the tongue to the cardiac nerves to know about the heart condition," says Janmejay.

A few months ago, Jaspreet's father was suffering from typhoid and used to get fever, frequently. When Jaspreet tried to measure his temperature, she could not determine the exact temperature through a conventional thermometer. This led the young girl to develop the idea of a thermometer with three lights—red for high temperature, blue for low temperature and green for normal temperature.