There are various applications of IOT in our daily life .Some of them are:-

1. **SOIL MONITORING:** Soil Monitoring with IOT uses technology to empower farmers and producers to maximize yield, reduce disease and optimize resources**.**IOT sensors can measure soil temperature, NPK, volumetric water content, photosynthetic radiation, soil water potential and soil oxygen levels.

**2. SMART HEALTH MONITORING:**  **The Internet of Things helps to improve the care for patients and the prevention of lethal events in high-risk patients.**

3. **TRAFFIC CONTROLLING:** **When we use our mobile phones as sensors, which collect and share data from our vehicles through applications such as Google Maps, we are using the Internet of Things to inform us and at the same time contribute to traffic monitoring,** showing the conditions of the different routes, and feeding and improving the information on the different routes to the same destination, distance, estimated time of arrival.

**4. SELF-DRIVING CARS:** The IOT applications enable the vehicles to sense and process huge amounts of data on traffic, pedestrians, and road conditions such as speed breakers, potholes, corners, and sharp turns.

**5. FACTORY EQUIMENT CONTROLLING:**  In the manufacturing department, IOT can be used in asset management and inventory management. Implanting IOT in the manufacturing sector can help in tracking the efficiency of the systems being used, detect any errors in the machinery, detect causes of lack of efficiency, etc.

**6. SMART PARKING:** Sensors are attached to parking lots to detect parked cars. Mobile Apps are used to identify empty parking spaces. Drivers check mobile apps to identify vacant parking spaces close to the location they aim to go to.

**7. GPS TRACKING:** with the help of gps sensor we can track the route of any vehicle

**8. SMART WATCHES WITH SENSORS:** Fitness trackers help you track your daily activities such as your sleeping patterns, your heart rate, activity patterns, workout statistics, calories burned, and so on.

**9. ENERGY MANAGEMENT:** IOT devices can help manufacturers manage energy consumption based on real-time data collected from devices. Intelligent energy management systems reduce energy bills, operational expenditures and carbon footprint of the factory while increasing energy efficiency

**10 . SMART POLLUTION CONTROL SYSTEM:** Smart air monitors detect pollutants emitted from vehicles in a particular region, affecting the environment. Such real-time updates to government agencies help them take required steps quickly.

**11. SMART DOOR LOCK SYSTEM :** It provides security when there is no one .it opens only when it recognizes the owner.

**12. SMART LIGHTNING SYSTEM:** Smart lighting is made up of street lighting with IOT sensors. Sensors collect data about the condition of traffic and pedestrians. With that data, street lights provide optimum lighting so that street lighting systems can save up to 80% of the energy. Smart lighting can also be applied to factories or homes.

**13. ROAD TOLL TAX COLLECTION:** With the help of sensors it recognizes the vehicle number directly, and immediately money will be deducted from the bank. Ex: fast tag

**14. NOISE MONITORING:** In smart cities, sound monitoring systems can monitor noise levels and warn companies that violate limits and help manage noise levels.

**15. SMART IRRIGATION:** IOT sensors determine the weather condition and the soil moisture, which will help in getting the appropriate amount of water that soil needs.

**16. PHARMACEUTICAL**: to check medicines temperature

**17. FLOOD ALERT SYSTEM:** rain sensors to predict flood and alert respective authorities and sound instant alarm in nearby villages to instantly transmit information about possible floods using IOT

**18. ULTRAVIOLENT RADIATION MONITORING:** IOT sensors measure UV sun rays to warn people not to be exposed in certain hours.

**19. FALL DETECTION:**  IOT sensors can detect falls using location data and summon help so that it reduces the time the elderly remain on the floor after a fall which could lead to serious consequences.

**20. SMART GRID SYSTEM:**  IOT enables remote data management and monitoring capabilities to manage better power flows into and out of their grids, and give users the insights needed to understand their energy infrastructure investments.