**Class 8, computer science festive homework**

1. Imagine you have a magic wand that can instantly improve one aspect of a computer. What would you improve, and why?
2. If you were to explain what a computer virus is to a friend who has never heard of it before, how would you describe it in simple terms?
3. If you could design a brand new computer game, what would it be about, and what kind of challenges or objectives would players face?
4. Think about the devices you use every day, like smartphones and laptops. How have they evolved over the years, and what features do you think they'll have in the future?
5. Describe an app or software program that you wish existed but doesn't. What would it do, and how would it make your life easier or more fun?
6. Pretend you are a computer programmer. Explain a complex task you could automate using code, like a chore or homework assignment, and describe how you would do it.
7. Imagine you're in charge of designing a new social media platform for kids. What safety features would you include to protect young users online?
8. If you had to explain the concept of "algorithms" to someone who has never heard of it, how would you describe it using everyday activities as examples?
9. Think about a time when technology frustrated you. What was the problem, and how would you suggest improving the technology to make it more user-friendly?
10. Create a fictional dialogue between a human and a robot, discussing the benefits and drawbacks of artificial intelligence in our daily lives.
11. Suppose you could build a robot to help with a household chore. What would the robot look like, and what tasks would it be able to perform?
12. If you could visit the future, what do you think will be the most significant advancement in technology, and how might it change the way we live?