```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main()
{
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcd.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hi";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //2

                st.seekp(-1, ios::cur);
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //1

                 st.seekp(10, ios::cur);    //11
                st<<"Hello";            //16

                st.seekp(20, ios::cur);
                   cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; //36
        }

}
```
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```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main()
{
```

```cpp
fstream st;
st.open("D:/JU/2022 1st sem/IT 2nd year/abcde.txt", ios::out);

if(!st)
{
        cout<<"file creation failed:" ;
}

else
{
        cout<<"file created: \n" ;

        st<<"Hi";
        cout<<"File pointer position: "<<st.tellp()<<endl;   //2

        st.seekp(-1, ios::cur);
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //1

    st.seekp(2, ios::cur);
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; //3

        st.close();
}

  //reopening the file in input mode:

        st.open("D:/JU/2022 1st sem/IT 2nd year/abcde.txt", ios::in);
        if(!st)
        {
                cout<<"no such file: \n";
        }
        else
        {
                char ch;
                st.seekg(-5, ios::end);
                cout<<"\n\nAs per tellg: File pointer position:"<<st.tellg()<<endl; //-1

                st.seekg(2,ios::cur);
              cout<<"As per tellg(): File pointer position:"<<st.tellg()<<endl; //-1
                st.close();
        }
```

}

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```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main()
{
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hello";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //5

                st.seekp(-4, ios::cur);     //st.seekp(-6, ios::cur); no updation
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //1

            st<<"a";
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //2

            st.seekp(2, ios::cur);
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; // 4

                st.close();
        }
}
```

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```cpp
#include<iostream>
#include<fstream>
```

```cpp
using namespace std;

int main()
{
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hello";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //5

                //st.seekp(-4, ios::cur);
                st.seekp(-6, ios::cur); //no updation
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //-1

            st<<"a";
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //-1

            st.seekp(2, ios::cur);
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; // -1

                st.close();
        }
}
```
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```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main()
{
```

```cpp
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hello";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //5

                //st.seekp(-4, ios::cur);
                st.seekp(-6, ios::cur); //no updation
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //-1

         st.close();
         st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        st.seekp(2, ios::beg);
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; //2

        st<<"a";
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //3

        st.seekp(2, ios::cur);
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; // 5

                st.close();
        }
}
```

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```cpp
#include<iostream>
#include<fstream>

using namespace std;

int main()
```

```cpp
{
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hello";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //5

                //st.seekp(-4, ios::cur);
                st.seekp(-6, ios::cur); //no updation
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //-1

         st.close();
         st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::app);

        st.seekp(2, ios::beg);
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; //2

        st<<"a";
        cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //3

        st.seekp(2, ios::cur);
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; // 5

                st.close();
        }
}
```

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```cpp
#include<iostream>
#include<fstream>

using namespace std;
```

```cpp
int main()
{
        fstream st;
        st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::out);

        if(!st)
        {
                cout<<"file creation failed:" ;
        }

        else
        {
                cout<<"file created: \n" ;

                st<<"Hello";
                cout<<"File pointer position: "<<st.tellp()<<endl;   //5

                //st.seekp(-4, ios::cur);

                st.seekp(-6, ios::cur); //no updation
                cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //-1

            st.close();
            st.open("D:/JU/2022 1st sem/IT 2nd year/abcdef.txt", ios::app);
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;//0

            st<<"a";
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;//1

            st.seekp(2, ios::beg);
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; //2

            st<<"a";
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl;  //5

            st.seekp(2, ios::cur);
            cout<<"As per tellp: current File pointer position: "<<st.tellp()<<endl; // 9

                st.close();
        }
}
```
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