Assignment 3 : templates

- Create a template class named **TypeChecker** with a single template parameter **T**.
- Add a member function called **printSize** to the class. This function should output the size of the type **T** using **sizeof**.
- Instantiate the class with different types, such as **int**, **float**, **double**, and **std::string.**
- Call the **printSize** function for each instance to display the size of the corresponding type.

- Example input :

  ```
  int main()
  {
          TypeChecker<int> a;
          TypeChecker<bool> b;
          TypeChecker<double> c;
          TypeChecker<std::string> d;
          a.printSize ();
          b.printSize ();
          c.printSize ();
          d.printSize ();
          return 0;
  }
  ```
- Output :
  Size of variable : 4
  Size of variable : 1
  Size of variable : 8
  Size of variable : 40