

Innovations

“THE FUTURE OF AI- (ARTIFICIAL INTELLIGENCE BASED SMART DUSTBIN)”

On 07-07-2023, under the supervision of S. **Radhika** from the Department of Computer Science, the E-Dust bin project was completed. The project was undertaken by MPCS-III students: P. Deepa, Nikhitha, D. Shirisha, and Renusri. They innovated an **E-Dust bin for collecting garbage**. D. Nuthana and A. Gethabhavani, faculty members of the Department of Computer Science, were the co-supporters for the project.



Different types of bins for different waste materials

The Flow Chart of first part of dustbin



Live Demonstration on Smart Dustbin Project



1	TTWRDC(W) Suryapet@kodad	Modern Periodic table in C++	A. Geetha Bhavani	9989917023	25	Completed in the month of October	Conducted for MPCs - II year
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07-10-2021 A. Geetha Bhavani, Department of Computer Science have done a mini project under Subject Forum, this project was undertaken by MPCs-II students, They innovated of creating PERIODIC TABLE. D. Nuthana, Department of Computer Science is the co-supporter for this project.

Periodic Table In C++ With Source Code

The **Periodic Table In C++** is developed using C++ programming language, In this C++ **Periodic Table**, you can get the idea of how to create a science project related to making the **Periodic Table C++**.

A **Periodic Table Project In C++** You can search the elements both by their periodic name and their atomic number. To search for the element by periodic name you have type "**Element Name**"- "**Atomic Number**". Also, as mentioned you can search the elements by their atomic number. After you search the element it will show you the results by displaying their details.

The whole project is designed in 'C++' language and different variables and strings have been used for the development of this project. This mini project is easy to operate and understand by the users.

This simple project can enhance the knowledge of the beginners or the students to develop their skills in programming, also this project is easy to understand the module and their variables.

Objective:

This program will help students to get the details regarding each elements which are available within the periodic table. It will enable the students to get the details of each element by just one click. This program is easy to run and get details of each elements. Users have to just select the particular element by moving arrows up and down and then press enter to get information such as atomic number, their atomic value, their location in the periodic table. One thing which users have to remember is setting the path of graphics driver which will be available under the bgi directory. To set the graphics driver location, first check out your graphics path as per your

compiler which you are using and set its path. Once the program has been run, it will display the home screen of CBSE EXAM PORTAL.

To start getting details wait for the next instruction generated by the command line. It will ask you to enter or press any key as per your requirement. The next page which will take you to the next screen will be as given below.

Existing System:

If you have to get information regarding any elements of periodic table then you have to use either period table which is made of paper or if you are going to use any software then you have to wait to download that particular software. Sometimes you get irritated, because the downloaded software are not getting the exact information as per your requirement. In the existing system, users do not get details of all elements which are available in the periodic table till date. Under the existing system all elements are not available under the same screen and you have to press next button or previous button to get details of your desired elements. All elements are not easily visible clearly so you have to scroll down the screen to get the entire information. There is no any simple way to quit the program and some program takes more disk space just for getting few information on time.

Proposed System:

As this program is written in C++, so it will take a little amount of your disk space and memory to load and execute the program. You do not have to download any software to get the details of elements which are available under the periodic table. You have to just use the codes which are given for this program and run over your computer. When you will press any key, you will be taken to the main screen of period table section and its starting screen will be as:

You can click any key to go to the next section. Under the next screen, you will be provided with all the elements list on the same screen and it will be displayed in same way which is displayed over periodic table chart map.

To get details, you have to select particular element and press enter. Once you press enter you will be able to get all its details. Whenever you want to quit the program, you have to just press ESC key from your keyboard and program will be terminated automatically.

Periodic Table of Elements

1 1IA 1A	2 IIA 2A											13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	18 VIIIA 8A	
H Hydrogen 1.008	He Helium 4.003											B Boron 10.811	C Carbon 12.011	N Nitrogen 14.007	O Oxygen 15.999	F Fluorine 18.998	Ne Neon 20.180	
Li Lithium 6.941	Be Beryllium 9.012											Al Aluminum 26.982	Si Silicon 28.086	P Phosphorus 30.974	S Sulfur 32.06	Cl Chlorine 35.45	Ar Argon 39.948	
Na Sodium 22.990	Mg Magnesium 24.305	3 IIIB 3B	4 IVB 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8	9 VIIB 8	10	11 IB 1B	12 IIB 2B	Ga Gallium 69.723	Ge Germanium 72.630	As Arsenic 74.922	Se Selenium 78.96	Br Bromine 79.904	Kr Krypton 83.80	
K Potassium 39.098	Ca Calcium 40.078	Sc Scandium 44.956	Ti Titanium 47.88	V Vanadium 50.942	Cr Chromium 52.00	Mn Manganese 54.938	Fe Iron 55.845	Co Cobalt 58.933	Ni Nickel 58.69	Cu Copper 63.546	Zn Zinc 65.38	In Indium 114.818	Sn Tin 118.710	Sb Antimony 121.757	Te Tellurium 127.6	I Iodine 126.905	Xe Xenon 131.29	
Rb Rubidium 85.468	Sr Strontium 87.62	Y Yttrium 88.906	Zr Zirconium 91.224	Nb Niobium 92.906	Mo Molybdenum 95.94	Tc Technetium 98	Ru Ruthenium 101.07	Rh Rhodium 102.906	Pd Palladium 106.42	Ag Silver 107.868	Cd Cadmium 112.415	Hg Mercury 200.59	Tl Thallium 204.38	Pb Lead 207.2	Bi Bismuth 208.98	Po Polonium 209	At Astatine 210	Rn Radon 222
Cs Cesium 132.905	Ba Barium 137.327	Lanthanide		Hf Hafnium 178.49	Ta Tantalum 180.948	W Tungsten 183.84	Re Rhenium 186.207	Os Osmium 190.23	Ir Iridium 192.222	Pt Platinum 195.084	Au Gold 196.967	Hg Mercury 200.59	Tl Thallium 204.38	Pb Lead 207.2	Bi Bismuth 208.98	Po Polonium 209	At Astatine 210	Rn Radon 222
Fr Francium 223	Ra Radium 226	Actinide		Rf Rutherfordium 261	Db Dubnium 262	Sg Seaborgium 263	Bh Bohrium 264	Hs Hassium 265	Mt Meitnerium 266	Ds Darmstadtium 267	Rg Roentgenium 268	Cn Copernicium 285	Nh Nihonium 286	Fl Flerovium 287	Mc Moscovium 288	Lv Livermorium 290	Ts Tennessine 291	Og Oganesson 294
Lanthanide		La Lanthanum 138.905	Ce Cerium 140.12	Pr Praseodymium 140.908	Nd Neodymium 144.24	Pm Promethium 145	Sm Samarium 150.36	Eu Europium 151.964	Gd Gadolinium 157.25	Tb Terbium 158.925	Dy Dysprosium 162.50	Ho Holmium 164.930	Er Erbium 167.259	Tm Thulium 168.934	Yb Ytterbium 173.054	Lu Lutetium 174.967	Actinide	
Actinide		Ac Actinium 227	Th Thorium 232.038	Pa Protactinium 231.036	U Uranium 238.029	Np Neptunium 237	Pu Plutonium 244	Am Americium 243	Cm Curium 247	Bk Berkelium 247	Cf Californium 251	Es Einsteinium 252	Fm Fermium 257	Md Mendelevium 258	No Nobelium 259	Lr Lawrencium 260	Actinide	

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- Alkali Metal
- Transition metal
- Semimetal
- Halogen
- Lanthanide
- Alkaline earth metal
- Basic metal
- Nonmetal
- Noble gas
- Actinide

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