

FSG:

FRANZ-STOCK-GYMNASIUM

ARNSBERG

*Miteinander
leben und lernen*



Wahlpflicht II

Kurs: P_(ysik) I_(nformatik) T_(echnik)

Themenbereiche

Jahrgangsstufe 8

- **Programmieren**
- **Robotik/Sensorik**
- **Technik**
- **Solarzellen**



Themenbereiche

Jahrgangsstufe 9

- **Programmieren**
- **Technik**
- **Brennstoffzellen**



Leistungsanforderungen

Aktive mündliche Mitarbeit

Schriftliche Klassenarbeiten

Praktische Arbeiten: u.a.

Programme schreiben; Roboter aus Lego bauen;
Experimente z.B. mit Solarzellen;
Gruppenarbeiten / Programmprobleme beheben...



Beispiel aus dem Informatikkurs

The screenshot displays the Lazarus IDE v0.9.28.2-8ubuntu1 beta interface. The main window is titled "Lazarus IDE v0.9.28.2-8ubuntu1 beta - project1". The menu bar includes File, Edit, Search, View, Project, Run, Package, Tools, Environment, Window, and Help. The toolbar contains various icons for file operations and execution. Below the toolbar, there are several panels:

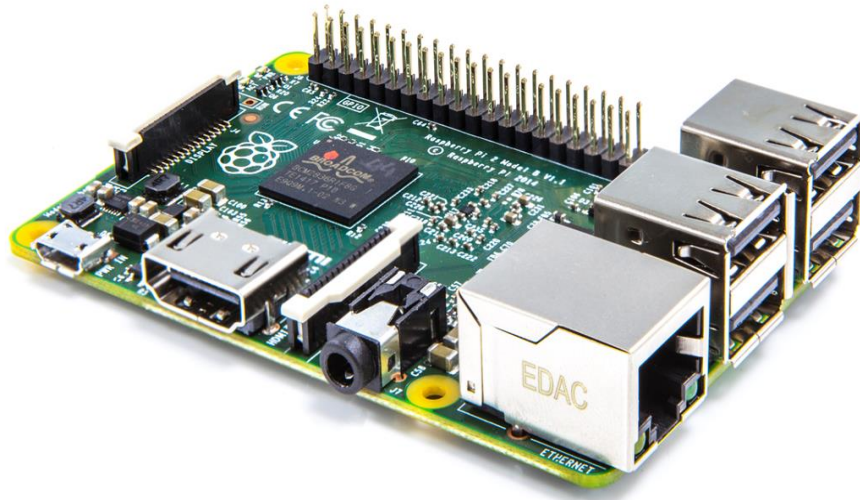
- Object Inspector:** Shows a tree view of the form's components: Form1: TForm1, Button1: TButton, ListBox1: TListBox, RadioButton1: TRadioButton, and RadioButton2: TRadioButton.
- Properties:** A table of properties for the selected component (Form1):

Property	Value
Action	
ActiveControl	
Align	alNone
AllowDropFiles	False
AutoScroll	False
AutoSize	False
BIDI Mode	bdLeftToRight
BorderIcons	[biSystemMenu, biCaption, biResize]
BorderStyle	bsSizeable
BorderWidth	0
Caption	Form1
ChildSizing	(TControlChildSizing)csNone
Color	clBtnFace
Constraints	(TSizeConstraint)crDefault
Cursor	crDefault
DefaultMonitor	dmActiveForm
DockSite	False
DragKind	dkDrag
DragMode	dmManual
- Source Editor:** Shows the source code for Unit1:

```
1  unit Unit1;
2
3  {$mode objfpc}{$H+}
4
5  interface
6
7  uses
8    Classes, SysUtils, FileUtil, LResources, Forms, Controls, Graphics, Dialogs,
9    StdCtrls;
10
11  type
12
13    { TForm1 }
14
15    TForm1 = class(TForm)
16      Button1: TButton;
17      ListBox1: TListBox;
18      RadioButton1: TRadioButton;
19      RadioButton2: TRadioButton;
20    private
21      { private declarations }
22    public
23      { public declarations }
24    end;
25
26  end;
27
28  implementation
29
30  {$R *.res}
31
32  end.
```
- Messages:** A panel at the bottom for handling messages.

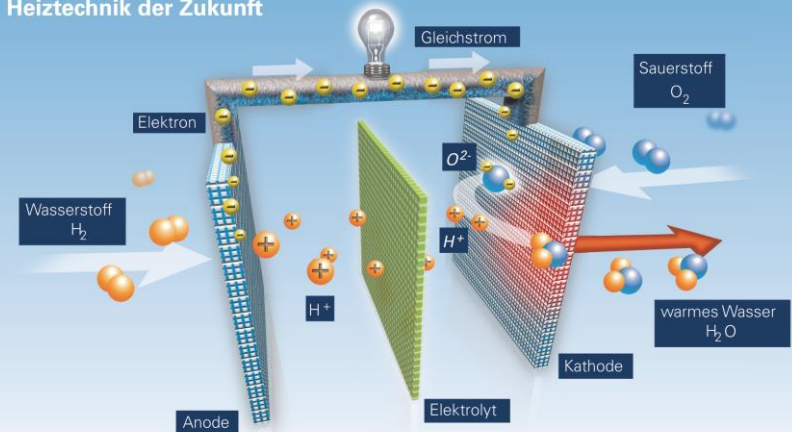
A floating window titled "Form1" is overlaid on the source editor, showing a visual representation of the form. It contains two radio buttons labeled "RadioButton1" and "RadioButton2", and a button labeled "Button1".

Im Technikkurs wurden z.B. behandelt:



Die Brennstoffzelle

Heiztechnik der Zukunft



INITIATIVE
BRENNSTOFFZELLE