

```

1  REM KKKKKKKKKKK
5  LET R=NOT PI
6  LET F=NOT PI
9  PRINT "DEIN NAME?"
10 INPUT N$
11 PRINT "LEICHT >L<", "SCHWER
>S<"
13 INPUT S$
20 FOR N=PI TO PI*EXP PI
30 CLS
35 PRINT "DOES IT MAKE YOU
SMARTER??"
40 LET A=INT (PI*RND+LN SQR PI)
42 LET D=(S$="L")+(S$="S")*(R+
SGN PI)/(F+SGN PI)
45 LET B=INT (D*VAL "11"*RND)
50 LET C=INT (D*AL "11"*RND)
55 IF A=SGN PI AND B<C THEN GO
TO CODE "H"
60 LET E=B/(C+(C=NOT PI))*(A=I
NT PI)+(B+C)*(A=NOT PI)+(B-C)*(A
=SGN PI)+B*C*(A=VAL "2")
65 IF E-INT E<>NOT PI THEN GOT
O CODE "H"
70 PRINT AT PI*PI,NOT PI;B;CHR
$(A+CODE "+");C+(C=NOT PI)*(A=I
NT PI);"=";
75 INPUT D$
80 IF D$="" THEN GOTO CODE "CO
S"
95 PRINT TAB PI+PI;VAL D$;TAB
PI*PI;
100 IF VAL D$=E THEN PRINT "JA"
105 IF VAL D$(>)E THEN PRINT "NE
IN->";E
110 LET F=F+(VAL D$(>)E)
115 LET R=R+(VAL D$=E)
120 PAUSE CODE "■"
130 NEXT N
200 PRINT AT PI*PI,NOT PI;"REIN
REIN ";(STR$(VAL "1.01"+V
AL "5"*F/(R+F)))( TO PI)
210 PAUSE 4E4
215 CLS
220 RUN

```

The Knowledge Foundation works to boost Sweden's competitiveness, by supporting:

- research at new universities and university colleges
- competence development in industry
- the promotion of IT in schools, education and healthcare
- the restructuring of industrial research institutes.

As part of this work, the foundation finances the research program LearnIT.

You can read more about the Knowledge Foundation's activities on its web site www.kks.se.

What does learning have to do with IT?



Today, we are undergoing sweeping longterm social changes where IT is impacting on our way of being, working and organising. This transformation of society is challenging work forms and the content of work, the form and content of education, and thus our living conditions and society as a whole. We live in what can be referred to as competence economy where knowledge is becoming increasingly important as

a factor in production. The task of the Knowledge Foundation's research program for learning and IT, LearnIT, is to study the interaction between learning and information technology. How do technological developments influence our ways of learning? How do our skills change? What challenges and opportunities does information technology offer? These are some of the questions LearnIT is seeking answers to.

From adult education to issues of diversity

LearnIT studies learning in society in a broad sense. Its project activities are not limited to schools and education but also concern questions about learning and competence development in working life, adult education and trade union work as well as issues relating to gender and diversity. Today, LearnIT has some 30 projects running at Swedish universities and colleges.

LearnIT's activities are in the form of a national, virtual research school and research projects. The goal is to create a national sense of fellowship among researchers from different disciplines who are interested in issues relating to learning and IT. Linking together the different university environments will raise the collective competence. This will contribute to increasing the number of competent teachers and researchers in the field of learning and IT. LearnIT's mission also includes disseminating research results from the various projects and publishing reviews and books as well as arranging different forms of seminars.

The research program is administered from Göteborg University and consists of a secretariat, a scientific advisory counsel and a board.

LearnIT analyses how IT impacts on learning, the formation of knowledge and education at three levels:

- **IT, LEARNING AND THE DEVELOPMENT OF SOCIETY**
Deals with fundamental issues linked to the change in democracy where ownership and control of information and knowledge represent power.
- **IT AND ORGANISATIONAL LEARNING**
Covers issues concerning the ways organisations change, and the consequent changes in what is done at work and how it is organised.
- **IT AND INDIVIDUAL COMPETENCE DEVELOPMENT**
Concerns how the structure and content of learning changes with information technology.

For list of projects, see back.

**Will the
next
demonstration
be held on
the net??**

Knowledge of a new era

Professor Ulf P. Lundgren, Uppsala University, and Professor Roger Säljö, Göteborg University, are LearnIT's most prominent figures. Professor Lundgren has been a member of the board of the Knowledge Foundation between 1994–2003 and is the chairman of LearnIT. Professor Säljö has been the scientific leader ever since the research program was initiated in 1997. Together, they lead the work of LearnIT.

“The biggest change created by IT is that society’s total memory capacity has increased”, says Professor Lundgren. “IT has changed the ways we learn in that we no longer need to store information in our own heads, it can be retrieved from other sources. When all information is available, other types of knowledge are required. For instance, we have to be able to determine what is and what is not relevant. You could say that in this way, IT makes our learning both easier and more difficult”.

“Previously, knowledge existed in textbooks. Today, when you have to look for the information yourself, you need to know where to look. A computer makes it easier to write and formulate a text, but it makes greater demands on your writing skills”, says Professor Säljö.

“I usually say that knowledge has been ‘disqualified’”, Professor Lundgren continues. “Previously, a lot of knowledge was needed in order to sail from Bergen to Iceland. Otherwise, you ran a large risk of missing your destination. Today, not nearly as much expert knowledge is needed, technology does it all for you. The need for expert knowledge has been

transferred to the person responsible for designing the technology”.

If you look ahead a few years, what will LearnIT have achieved?

“We will have built up greater competence in the field of learning and IT. More doctoral students will have graduated from our research school and through our projects, we will have developed new knowledge and disseminated it among more people”, says Professor Lundgren.

“I hope that LearnIT will have created an awareness and renewed discussion of what we need to know and don’t need to know, that the education system will have reflected on its role and be in phase with the times”, says Professor Säljö. “LearnIT is a program that will devote itself to this question for a limited period of time. We will have time to shed light on and solve a few questions. Then new questions will emerge. The core question – how our knowledge and skills change – is always topical and will continue to be discussed.

“Knowledge has
been ‘disqualified’”



Projects funded by LearnIT

Adult education – a conversational environment for learning

Young citizens, IT and learning

Work-integrated learning

Sustainable IT development in the school – where do the municipalities go from here?

IT and learning in teacher training

Science in interactive learning environments

Technology changes in the process industry

Design and implementation of digital teaching aids – a systematic analysis

Digital teaching resources in the Swedish school – user perspectives

ICT in the transition from educational practice to professional practice

Marking documents: political and pedagogical perspectives

LearnIT, Göteborg University
Box 300, S-405 30 Göteborg, Sweden
www.ped.gu.se/learnit