



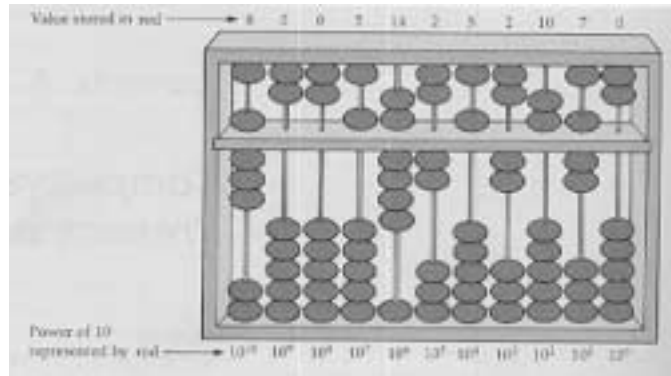
### I ¼yq«dpl fpsS DÜ hhpw Ncn(Xhpu

amXr`qan Zn\, {X` nsâ Ø m] I \mb sl. ] n. tl i htat\m³ ei \nõ  
\n¶ pw 80 hÄj w ap¼v F gpXnb Hcp hmÄ` t\m; pl "ei \nõ 'ssSwk "v  
]{X` n\ v k z' ambn Hcp sSent^m- Di v apJy] {Xm[ n] Äj v am{Xw  
D] tbmKn; m³ I gnbp¶ Cu D] I cWw D] tbmKn' mWv sl m«mc` nõ \n¶ pw  
ChnsS hmÄ` F` nt' cp¶ Xv

hfsc B Ý cyt` msSbmWv A ¶ v hnti j n, nj s, « "sSet^m- " F ¶  
D] I cWw C¶ v I mWm` mXbn I q«pl mcñõ B cpapí ml nñtñm? hmÄ` m  
hn\ nab k whn[ m\§ fnõ CXn\ I w F s' ' p amä§ fmWv k w` hn' n«pÄ Xv  
F ¶ mõ 1947põ s] ³ k põhm\ nb k ÄEI emi mebnõ Ø m] n' 'C\ nbml v F ¶  
B Zys` Cel vt{SmWnl v I ¼yq«dn\ v 30 S- `mchpw GXmi v Hcp k m[ mcW  
aq¶ v s\_ Urdqw sl «nS` nsâ hen, hpu Di mbncp¶ p. CXnõ GXmi v Hcp  
\_Ä\_ nsâ hen, w hoXapÄ 18,000 hmõhpl fmWpi mbncp¶ Xv Cu I ¼yq«Ä  
{] hÄ` n' ncp¶ k ab` v \Kc` nse¼mSpw ] hÄI «v A \p` hs, «t{X? F ¶ mõ  
Ct¶ m? \mw k m[ mcW I mWp¶ hn[ ` nõ tai, pd` vsh; mhp¶ Xc` nepw  
(sUk v v tSm, v I ¼yq«Ä) aSn` «nõ h' v D] tbmKn; mhp¶ Xc` nepw (em] v  
tSm, v I ¼yq«Ä) t] m; äñõ sl mi p \S; mhp¶ hn[ ` nepañmw I ¼yq«dpl Ä  
sNdpXmbn sNdpXmbn h¶ n«pi v sNdpXmI pt¼mÄ Xs¶ hnebpu I pdbpl bpu  
F ¶ mõ ti j n hfsc I qSpl bpu sNçp¶ Ncn(XamWv  
I ¼yq«dn\pÄ Xv

### B Zyl me I ¼yq«dnvKv b{` § Ä

A\_m; kv (aWni` «w) F ¶ I W; pl q«m\p] tbmKn; p¶  
D] I cWs` ; pdn' v I q«pl mÄ tl «n«pi ml patñm. hn«epl Ä D] tbmKn' v  
F ®p¶ k {¼Zmbt` mSv hfsc k mayapÄ XmWv CXnsâ {] hÄ` \w.  
{I nk \Xphn\ v ap¼v 2000 p ami nt\mSSp` mWv Cu D] I cWw cq] s, Sp` nbXv  
F ¶ v hni zk n; s, Sp¶ p. {Koi nse B «nSb³ amcmWv Cu D] I cWw B Zyambn  
D] tbmKn; m³ XpSS nbXv



A<sub>m</sub> k

A<sub>m</sub> k nsâ D] tbnKw hym] I ambtXmsS bñ{` nl ambn I W<sub>j</sub> pl q«m³ k I mbn; pñ aäv k whn[m\§ Ä cq] s<sub>3</sub> Sp<sup>-</sup> pñ Xnembn {i². CXns\ XpSÄñ] v ] õ{` I § fp] tbnKn`v {} hÄ<sup>-</sup> n<sub>j</sub> pñ I mÕ<sub>j</sub> pteänwKv tÇm<sub>j</sub> v ] mkv sse³, sl ] Uv sd<sub>j</sub> WÄ XpSS nbhbpw XpWn s\ b<sup>-</sup> v b{` § Ä {} hÄ<sup>-</sup> n<sub>3</sub> n<sub>j</sub> m\mbn hnl k n<sub>3</sub> ns<sup>-</sup> Sp<sup>-</sup> b{` amb Pmt<sub>j</sub> Uepw CXp I qSmsX I W<sub>j</sub> pl q«epl Ä b{` hõ<sub>j</sub> cn<sub>j</sub> pñ Xnsâ `mKambn hnl k n<sub>3</sub> ns<sup>-</sup> Sp<sup>-</sup> Uñ^d³ kv F³ Pñ³, A\ eän<sub>j</sub> õ F³ Pñ³, tl mw] vtäm aoäÄ XpSS nbhbpw I W<sub>j</sub> pl q«epl Ä<sub>j</sub> mbn I i v ] nSn<sup>-</sup>p. Ct<sub>3</sub> mÄ Cu b{` § sfñmw ayqk nb§ frõ am(Xta I mWm\ml q.



Uñ^d³ kv F³ Pñ³



amÄ<sub>j</sub> v1

B [ p\nl I ¼yq«dnsâ ] nXmhv F ñ dnbs<sub>3</sub> Spñ Xv NmÄk v \_mt\_ Pñs\bmWv KWnXi mk {X ] «nl I fpsS I W<sub>j</sub> pl q«õ



b{´ hõj cñj pñ Uñ^d³k v F³Pñsâ I ï p]ñSnñ amWv A±l sñ Cu t]cñ\ DSabmj ñbXv Fñ mõ B Zysñ I ¼yq«À AÀ° hñ mbñ cq] I e] \ sNb\Xv I mÀthÀUv bqWñthgk ññbñse t{] m^k dmb tñ mthÀUv sF j sâ B i bw B bñcpñ p. A±l w \ñÀ½ññ Hmt«mamñj v k zoj ßk v I ñ t{SmÄUv I mõj pteäÀ Fñ b{´ w ]ññ oSv amÀj v 1 Fñ t]cñõ B Zysñ Cel vt{Sm sañ m\ñj õ I ¼yq«dmbñ {] i k v\Xambñ.

I ¼yq«dpl fpsS Hñ mw Xeapd ( 1946p1960)



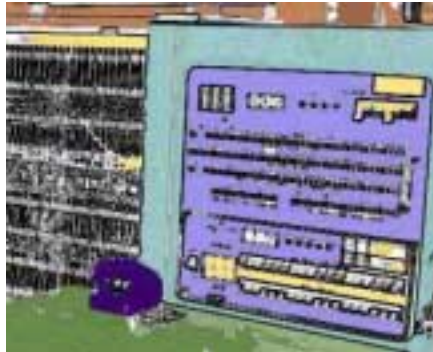
F \ñbmj v

B Zysñ Cel vt{SmWñj v I ¼yq«dmb F \ñbmj ñsâ (ENIAC) I ï v]ñSnñ tñ msSbmWv I ¼yq«dñsâ Hñ mw Xeapd XpSS ñbXv hml zw Syq\_p I Ä D]tbmKññ mWv Cu I ¼yq«À {] hÀñ ññ Xv s] ßk põhm\ñb bqWñthgk ññbñse tUm. tPmñ auj ven , t{] m^k À F j Ä«v XpSS ñbhcmWv CXv I ï p ]ñSnñ Xv hfsc `oaml mchpw, `mcw I qSñbXpw, DbÀñ Dõ\_mZ\ Nñehpw I pdª hñi zk \obXbpw B bñcpñ p CXñsâ [ ] [ m\ k hñti j XI Ä. Cu I ¼yq«dpl Ä hñb hñZKv³ amÀj v am{Xta Añ v D]tbKñj m³ I gnª ñcpñ pÄ q.

DZm : bqWñthmj v G \ñbmj v



### ci mw Xeapd (1960p1965)



IBM -360

I qqpl mA {Sm<sup>3</sup> kni A tdUntbm F qv ti «n«pti m . AXpt] mse {Sm<sup>3</sup> kni A F qv k whn[m\w B bnrcp q p ci mw XeapdbnO D] tbnKni Xv H q mw Xeapdbnse I ¼yq«dpl Ä `oa<sup>3</sup> amcmbnrcp q tñm? F q mO Cu I meL «<sup>-</sup> nse I ¼yq«dpl Ä; v I pd<sup>i</sup> pl qsS hen<sub>3</sub> w I pd<sup>a</sup> hbpw I pd<sup>a</sup> DXij mZ\ NnehpA hbpw B bnrcp q p.

IBM 1620 F qv I ¼yq«Ä k whn[m\w<sup>-</sup> nsâ amXrl I qqpl mA; v I mVmw.

### aq q mw Xeapd ( 1965p1975)



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AXn k qE va teml ; ¼nl Ä {} Xe<sup>-</sup> nO tNA<sup>-</sup> v ] nSn<sub>3</sub> ni v sshZypX k Ä; yq«pl Ä (Cât(Käv k Ä; yq«)) k whn[m\w sN<sub>2</sub> p qv {i aw I i v ] nSn<sup>i</sup> Xv Cu XeapdbnO B bnrcp q p. Htc kabw Hcp] mSv {} {l nbl sf Hcpni v



sN<sub>2</sub>m\pÅ I gnhv hfsc I pd<sup>a</sup> hen<sub>2</sub>w, XpSS nbh Cu I mes<sup>-</sup>  
I ¼yq«dpl fpsS {} tXyl XbmWv

DZm : Sn.U.n.k n 316 F ¶ I ¼yq«À k whn[m\<sup>-</sup> nsâ amXrl I q«pl mÀj v  
I mVmw.

### \memw Xeapd (1975p85)



I q«pl mA Ct<sub>2</sub>mgs<sup>-</sup> I ¼yq«A I i n«ntñ CXv \memw Xeapdbrið  
DÄs<sub>2</sub>Sp¶ hbmWv aq¶ mw XeapdbpsS I pd<sup>ii</sup>pl qSn ] cnj vl cn<sup>ii</sup>XmWv \memw  
Xeapd I ¼yq«dpl Ä B I rXn sNdpXv (A XmbXv Hcp tai<sub>2</sub>pd<sup>-</sup> v  
hbv<sub>2</sub> mhp¶ {X hen<sub>2</sub>w), sNehv I pdhv I qSpXð HmÀ½i à n XpSS nbh Cucv  
I meL «<sup>-</sup> nse I ¼yq«dpl fpsS k hnti j X B bnep¶ p.

### A © mw Xeapd (1985 apXð)

CXv I r{Xna \_p<sup>2</sup> ni à n (B À«n^nj yð CæenP<sup>3</sup>k y) F ¶  
k t; X<sup>-</sup> nsâ ] pXnb ] mT§ Ä DÄsj mÀ p¶ XmWv Cu Xeapd. A XmbXv  
Cu I meL «t<sup>-</sup> msS k m[mcW I Wj pl q«ð b{<sup>-</sup> w F ¶ \nebrð \n¶ pw  
hnthN\ i à n I qSn b b{<sup>-</sup> ambn I ¼yq«À amdm<sup>3</sup> XpSS n. temi sNk v Nm¼y<sup>3</sup>  
Kmcn I mk s] tdmhpw I ¼yq«dpw X½nð sNk v I fn<sup>ii</sup> k w`hw I q«pl mÀ  
tl «pl mWpatñm? I ¼yq«dnâ `mK§ fpw I mÀUv shbÀ) A Xv  
{ hÀ<sup>-</sup> n<sub>2</sub>nj m\mhi yamb \nÀt±i § fpw (tk m^äv shbdpl fpw) D] tbnKn<sup>ii</sup> v



## VIVARAVIDYA SHIBIRAM

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അപ്ലൈഡ് ടെക്നോളജി കൗൺസിലിന്റെ നേതൃത്വത്തിൽ നടന്നുവരുന്ന വിവരാവിദ്യാ ശിബിരം  
ഇന്റർനെറ്റ് സൈറ്റിലൂടെയും ക്ലാസ്സറൂം വഴിയുമാണ്.