

টিউটোরিয়াল তিন : ভ্যারিয়েবলের ব্যবহার

--হাসিন হায়দার--

কিছু প্রাথমিক কথা

ধরা যাক `j` `vsMjtqR` `tKwVs` `KiZ` `tMtj` `B` `f'wi tqej` `Ges` `dvskb` `m#U` `Avcbvi` `^Q` `avibv` `_vKv` ``iKvi` `|` `Awg` `GB` `uUDtUwi` `qvj` `f'wi tqej` `wtq` `we^wi` `Z` `Avtj` `vPbv` `Kie|` `Avcbvi` `hw` `f'wi tqej` `m#U` `AvM` `t_KB` `f'v` `avibv` `t_K` `_vK` `Zey` `GB` `uUDtUwi` `qvj` `u` `GKevi` `tPvL` `ewj` `tq` `wb` `|` `nqZv` `bZp` `wKQtctZ` `i` `cvtib` `|`

৩.১ ভ্যারিয়েবল কি

`f'wi tqej` `nj` `GKu` `KbUBbtii` `gZ` `thLv` `tb` `tKvb` `WwUv` `t÷vi` `Kiv` `hvq|` `f'wi tqej` `tek` `KtqK` `aitbi` `ntZ` `cvti` `|` `GtKK` `aitbi` `f'wi tqej` `GtKK` `aitbi` `WwUv` `ivLv` `hvq|` `Avcbvi` `gtb` `ckæRvMtZ` `cvti` `th` `WwUv` `GB` `cKvi` `Mtjv` `wK` `wK|` `wcGBPwc` `tZ` `WwUv` `gj` `Z` ``B` `cKvi` `,` `wbDtgi` `Kvj` `Ges` `Avj` `dv` `wbDtgi` `Kvj` `|` `thB` `WwUv` `tZ` `K^ti` `KUvi` `UvBci` `WwUv` `_vK` `thgb` `a,b,c,d` `ev` `Ab^vb` `wcUej` `K^ti` `KUvi` `thgb` `@,#,$,%` `ZvK` `Avj` `dwbdgti` `Kvj` `WwUv` `etj` `|` `Gt` `i` `gvS` `1,2,3,4,5` `Givl` `cto|` `Avj` `dwbdgti` `Kvj` `WwUv` `wcGBPwc` `tZ` `w÷$` `WwUv` `brtg` `cvwPZ` `|` `Avi` `th` `WwUv` `tZ` `kpy` `1,2,3,4,5,6,7,8,9,0` `GB` `KtqKu` `msL^v` `_vK` `ZvK` `etj` `wbDtgi` `Kvj` `WwUv` `|` `wbDtgi` `Kvj` `WwUv` `Avei` `tek` `wKQycKvif^` `AvQ` `thgb` `cb^msL^v` `fMemsL^v` `|` `wcGBPwc` `wevfboe` `WwUv` `UvBc` `Ges` `Zv^` `i` `WwUv` `aitb` `wtq` `Awg` `wtP` `Avtj` `vPbv` `Kij` `vg|`



`f'wi tqej` `i` `bvg` `ivLvi` `t^t` `tLqv` `ivL^Z` `nte` `th` `Gt` `i` `brtgi` `kj` `"` `thb` `$` `wPy` `w` `tq` `kj` `"` `nq|` `GQrov` `f'wi tqej` `i` `bvg` `'$` `mvBti` `cti` `Aek^B` `tKvb` `Gj` `dvtemUK` `K^ti` `KUvi` `ev` `AvUvi` `t^vi` `w` `tq` `kj` `"` `ntZ` `nte` `,` `Gt^t` `tKvb` `msL^v` `e^envi` `Kiv` `hrtbv` `|` `$abc` `,` `$_abc` `f'wi tqej` `i` `bvg` `wtmte` `mwK` `,` `wKSy` `$labc` `bq|`

৩.২ পিএইচপিতে বিভিন্ন ডাটা টাইপ

ইন্টজার (Integer) : `BtURvi` `nj` `cb^msL^v` `|` `A_` `GtZ` `tKvb` ``kugK` `msL^v` `_vKtZ` `cvite` `bv|` `D^vniY` `wtmte` `ejv` `hvq` `12` `,` `35` `BZ^w` `|` `BtURvi` `UvBci` `f'wi tqej` `-2,147,483,648` `t_K` `+2,147,483,647` `chS` `-thtKvb` `msL^v` `ivLv` `hvq|` `Zj` `bvgj` `K` `fite` `ejv` `hvq` `C` `j` `vsMjtqRi` `long` `UvBci` `WwUv` `Ges` `wcGBPwc` `i` `BtURvi` `UvBci` `WwUv` `mgchq` `|` `BtURvi` `f'wi tqej` `Avcb` `hw` `Gi` `wj` `ugtUi` `evBti` `tKvb` `msL^v` `A_` `AtbK` `eo` `tKvb` `msL^v` `ivLb` `Zvntj` `wcGBPwc` `i` `fvi` `td^` `Gii` `Govbvi` `Rb` `A^UvgtUKwj` `tmB` `WwUv` `tK` `"floating point"` `UvBci` `f'wi tqej` `cvieZB` `Kti` `tdtj` `|` `wcGBPwc` `tZ` `Avti` `Ku` `gRvi` `KvR` `Kiv` `hvq` `GB` `BtURvi` `f'wi tqej` `wtq|` `tmUv` `nj` `Avcb` `GtZ` `tWmgvj` `(tem 10)` `,` `AKUvj` `(tem 8)` `ev` `tn^` `v^Wmgvj` `(tem 16)` `msL^v` `ivL^Z` `cvtib` `|` `wtP` `Gi` `GKu` `D^vniY` `t^` `Lv^bv` `nj` `|`

```
$decimal=16; //tWmgvj msL^v
$hex=0x10; //tn^ v^Wmgvj msL^v
$octal=020; //AKUvj msL^v
```

ফ্লোটিং পয়েন্ট (Floating Point) : `tdwUs` `ctqU` `nj` ``kugK` `hyB` `msL^v` `ev` `fMemsL^v` `|` `Zj` `bvgj` `K` `fite` `ejv` `hvq` `C` `j` `vsMjtqRi` `double` `UvBci` `WwUv` `Ges` `wcGBPwc` `i` `tdwUs` `ctqU` `UvBci` `WwUv` `mgchq` `|` `temki` `fivM` `Acvti` `wt÷tgB` `tdwUs` `ctqU` `f'wi tqej` `i` `tiA` `nj` `1.7E-308` `t_K` `1.7E+308` `chS` `t` `tdwUs` `ctqU`

UvBtci f'wittqetj mvavib f'vte A_ev mvtqWUdK tbrtUkb mn `f'vteB WvUv ivLv hvq| wbtP D`vniY t`Lvtrv nj |

```
$var=0.017; //mvavib f'vte
$var=17.0E-3; // mvtqWUdK tbrtUkb mn
```

Dtj L`th AtbK eo eo msL'v wbtq AZ`waK wbfjZvi mvt_ KvR Kivi Rb` wGBPw tZ `B aitbi dvskb tml AvtQ, h_v BCMath (www.php.net/bc) Ges GMP (www.php.net/gmp)| Awg cti Gt`i tK wbtq Avtj vPbv Kie|

স্ট্রিং (String) : w÷\$ nj mwiex f'vte ivLv KZMtjv K'vti KUvi | K'vti KUvi wKŠy wDtgwi K Ges Avj dwbDtgwi K `jKgB ntZ cvti | wGBPwtZ w÷\$ f'wittqetj WvUv ivLtz ntj ZvtK wmsMj tKvUkb ev Wvej tKvUkb gvK® yiv Ave× Ki tZ nq| wbtPi D`vni bU t`Lp

```
$str1 = "Hello World" ;
$str2 = 'Hello World' ;
```

Avcub hw`I tbtKvbfvteB w÷\$ wj LtZ cvtib, wKŠyGt`i gvtS GKUv wekvj cv`R` AvtQ| tmlv nj Wvej tKvUW w÷\$ tq f'wittqetj mvew÷wJdkb Ges GmtKwcs mæ hv wmt½j tKvUW w÷\$ tq mæ bq|



ভ্যারিয়েবল সাবস্টিটিউশন : w÷\$ Gi gvtS hw` tKv f'wittqetj _vtK Zvntj wGBPw tmb w÷\$ tK cvm® Kivi mgq f'wittqetj i gvb ewmtq ZvtK cvm®Kti, thgb
\$str1 = "Hello" ;
\$str2 = "\$str1 World" ;

Dctii D`vni tB \$str2 i gvb nte "Hello World", Kvib GB w÷\$ tqi gvtS \$str1 bvtg GKU f'wittqetj wQj, tmbRb` wGBPw \$str2 cvm®Kivi mgq \$str1 Gi gvb ewmtq w`ttqQ| GB e`vcvi wtkB etj f'wittqetj mvew÷wJdkb

এসকেপিং : GmtKc K'vti KUvi nj Ggb GKU K'vti KUvi hvi mgŠtq Ab` wKQy K'vti KUvi wj Ltj Zvt`i gvb Avj v`v A_`enb Kti | wGBPwtZ ``nj GmtKc K'vti KUvi | Gi mvt_ wgvj Zfvte wKQy wv`® K'vti KUvi Gi wtkl gvb itqtQ| wbtP Gt`i D`vni b t`qv nj |

এসকেপ সিকোয়েন্স	অর্থ
\n	bZp j vBb (LF or 0x0A (10) in ASCII)
\r	K'vti R wi Uvb®(CR or 0x0D (13) in ASCII)
\t	ni vBR>Uvj U've (HT or 0x09 (9) in ASCII)
\\	e`vK`®
\\$	Wj vi mvBb
\"	Wvej tKvU
\123	AKUvj gvb w` tq tbtKv K'vti KUvi wPwYz Kiv hvq
\x12	tn· vtWmgvj gvb w` tq tbtKv K'vti KUvi wPwYz Kiv hvq

উদাহরণ :

```
echo "Hello \tWorld" |& L& Hello World |&
echo "\"Hello World\" \" |& L& Hello World |&
```

W&L& K&UW W&L& Gai&bi Gm&K&cs Ges f'wi&tqej mvew&W&D&kb nq bv | thgb W&t&Pi D`vni&W&L& f`Lp |

```
$str1 = "Hello";
$str2 = '$str1 World';
echo $str2;
```

GLb W&S&f"Hello World" W&L&U nevi e`&tj "\$str1 World" B W&L&U n&te |

Av&giv D&cti f`&t&L&Q W&L&S f'wi&tqetj gvb emv&Z& t&Mtj \$variable = "value" Gf&v&te W&L&tj B P&tj | W&S&f
KL&t&bv h&w A&t&bK eo GK&W&U c`viv f'vj&y&W&t&M&te t&M&U Kiv `i&Kvi nq ZLb W&K Ki&t&eb ? ai`b Av&cbvi `i&Kvi
W&t&Pi c`vi&W&U f&Kvb f'wi&tqetj f'vj&y&W&t&M&te t&M&U Kiv `i&Kvi |

Hello World
How is everyone?
How are you?

G&t&K Av&cb W&t&Pi gZ K&i Ki&t&Z cv&t&b

```
$str = "Hello World \nHow is everyone? \nHow are you?";
echo $str;
```

W&S&fG&t&K Av&t&iv A&t&bK m&t&R W&t&Pi gZ K&i Kiv hv&q |

```
$str = <<< END
Hello World
How is everyone?
How are you?
END;
echo $str;
```

D&cti i D`vni&b W&S&fAv&t&MigZB K&vR Ki&te W&S&fGf&v&te t&j Lvi d&tj Av&cbv&t&K GK&Uv W&L&S f'wi&tqetj evi&evi
Gm&t&Kc K`v&t&i&KUvi W&L&t&Z n&t&"Q bv | GQ&ov GBf&v&te t&j Lvi d&tj t&KW t&ek t&evaMg" t&t&K hv&t&"Q | GB t&j Lvi
÷v&Bj W&t&K etj "heredoc" | D&cti i t&Kv&W Av&cb W&L&S&f&v&te g&v&t&S f'wi&tqej | W&L&t&Z cv&i&teb | W&t&Pi
D`vni&W&L& f`Lp |

```
$var = "World";
$str = <<< END
Hello $var
How is everyone?
How are you?
END;
```

```
echo $str;
```

GLvṭb wKšƒwiṭqej mwew÷wDkṭbi Kviṭb AvDUcṭ AvṭMi gZB _vKṭe| Dṭj ƒ ṭh Awig ṭhLvṭb END
wṭṭLwQ Zv Avmṭj GKaiṭbi gvKṭ | Avcṭb hv B"Qv e'envi KiṭZ cṭṭi b|

```

বুলিয়ান (Boolean) : ewj qvb nj Ggb GKai tbi f'wii tvej hv kqvi `B ai tbi gvb t÷vi Ki tZ cxti, true
Ges false | tKvb ewj qvb f'wii tvej 0 Ges null ewt` thtKvb gvb t÷vi Ki t j B Zv true wntmte Mb` nte |
wb tPi D` vni bW t` Lp

```

```
$bool = true;
echo $bool;
```

AvDUcyl Avmte 1, GQvor 0 Ges null evt` thtKvb gvbB th true Zv tevSvi Rb` wbtPi D` vni bilU t` Lp

```
$bool = 7;
echo $bool==true;
```

```
$bool = "hello";  
echo $bool==true;
```

Dr. J. B. AvDUcy Avmte 1 |

৩.৩ পিএইচপিতে টাইপ কাস্টিং

GK aiṭbi f'wītqetj i gvb Ab̄ aiṭbi f'wītqetj cwieZB Kivi c×wZB nj UvBc Kw÷s | aiḇ Avcwb GKwU w÷štq “123abc” ‡÷vi K‡i†Qb | GLb P†rḠQb G†K B†URv†i cwieZB Ki†Z | ‡m†¶†† w†Pi gZ ‡KwW wj L†Z cv†ib |

```
$int = (int) "123abc";  
echo $int;
```

AvDUCp Avmte 123 | Dctii D`vniṭb (int) nj GKwU AcvṭiUi hv ṭKrb f`vwiṭqej ṭK BṭURṭi i/cvṣṭi
Kṭi | f`vwiṭqej i AvM ṭKrb i/c cwieZḐ KiṭZ Pṭ"Qb ṭmB AcvṭiUi wj ṭL w`ṭj B Kw÷s nq | wṭP UvBc
Kw÷s Gi Rb` UvBc AcvṭiUi Mṭj v Dṭj L-Kiv nj |

অপারেটর	কাজ
(int), (integer)	৳৳৳৳৳ K৳÷ K৳i
(real), (double), (float)	†d৳Us c†q†U K৳÷ K৳i
(string)	৳÷\$†q K৳÷ K৳i
(array)	A৳†i †Z K৳÷ K৳i
(object)	Ae†R± ৳††††† K৳÷ K৳i
(bool), (boolean)	e৳j q†b K৳÷ K৳i
(unset)	null ৳††††† K৳÷ K৳i G৳Ui e'envi unset() d৳sk†bi gZB

