

# সফটওয়্যার-এর কারুকাজ

## অ্যাপসিক কোড

এই প্রোগ্রামটি টারবে নিতে কাজ। এটি রান করলে ASCII CODE তালিকা কম্পিউটার প্রদর্শন করবে। এটি কলার মনিটরের জন্য করা তবে এটি অন্য মনিটরেও চলাবে।

```
# include < conio.h >
# include < stdio.h >
main ()
{
    int i;
    clrscr ();
    for (i = 0; i <= 256; i++)
    {
        printf (" %c %d = ", i, putchar (i));
        if (i > 0 && i <= 12) if (i % 12 == 0)
            printf (" \nPress any key to Continue "); getch ();
        if (i > 12) if (i % 12 == 0)
            printf (" \nPress any key to Continue "); getch ();
    }
    printf (" \nPress Any Key to Quit ");
    textcolor(4);
    gotoxy (45,12);
    printf ("By Md. Ehsanul Haq RICOH");
    textcolor (14+ (28));
    gotoxy (45, 13);
    printf (" ASCII Codes ");
    textcolor (7);
    gotoxy (45, 14);
    printf (" GOOD LUCK TO YOU ! ");
    getch ();
}
```



এহসানুল হক রিকো

## ক্যালকুলেটর

GWBasic এ করা নিচের প্রোগ্রামটি দ্বারা একটি সুন্দর ক্যালকুলেটর তৈরি করা যায়। প্রোগ্রামটি রান করার পর + চিহ্ন চাপলে যোগ করা হবে, \* চিহ্ন চাপলে বর্গ করা হবে ইত্যাদি।

```
GWBasic / CALCULATOR
10 CLS: KEY OFF:
20 CALCULATOR: 15: LOCATE 20, 27: PRINT "PROGRAM FOR
30 COLOR 5: LOCATE 21, 35: PRINT "BY": COLOR 2
40 COLOR 18: LOCATE 22, 30: PRINT "COMPUTER to ATB":
50 COLOR 5: LOCATE 24, 31: PRINT "CHITTAGONG"
60 COLOR 2: LOCATE 25, 25: PRINT "PRESS ENTER TO
70 COLOR 0: LOCATE 25, 52: INPUT "P": A: COLOR 2
80 PRINT CHR$ (7): CLS
90 LOCATE 6, 23: PRINT CHR$ (201): LOCATE 6, 34: PRINT
100 LOCATE 7, 23: PRINT CHR$ (186): LOCATE 6, 48: PRINT
110 LOCATE 7, 48: PRINT CHR$ (186): LOCATE 8, 23: PRINT
120 LOCATE 8, 48: PRINT CHR$ (186): LOCATE 9, 23: PRINT
130 LOCATE 9, 48: PRINT CHR$ (186): LOCATE 10, 23: PRINT
140 LOCATE 10, 48: PRINT CHR$ (186): LOCATE 11, 23: PRINT
150 LOCATE 11, 48: PRINT CHR$ (186): LOCATE 12, 23: PRINT
160 LOCATE 12, 48: PRINT CHR$ (186): LOCATE 13, 23: PRINT
170 LOCATE 13, 48: PRINT CHR$ (186): LOCATE 14, 23: PRINT
180 LOCATE 14, 48: PRINT CHR$ (186): LOCATE 15, 23: PRINT
190 LOCATE 15, 48: PRINT CHR$ (186): LOCATE 16, 23: PRINT
200 LOCATE 16, 48: PRINT CHR$ (186): LOCATE 17, 23: PRINT
210 LOCATE 17, 48: PRINT CHR$ (186): LOCATE 17, 23: PRINT
220 LOCATE 18, 48: PRINT CHR$ (186): LOCATE 18, 23: PRINT
230 LOCATE 19, 23: PRINT CHR$ (200): LOCATE 19, 48: PRINT
240 LOCATE 19, 24: PRINT STRINGS (24, CHR$ (205))
250 LOCATE 7, 24: PRINT STRINGS (24, CHR$ (178))
260 LOCATE 8, 24: PRINT CHR$ (201): LOCATE 8, 25: PRINT
STRING $ (22, CHR$ (205))
```

```
270 LOCATE 9, 24: PRINT CHR$ (186): LOCATE 8, 47: PRINT
280 LOCATE 9, 47: PRINT CHR$ (186): LOCATE 10, 24: PRINT
290 LOCATE 10, 25: PRINT STRINGS (22, CHR$ (215)): LOCATE
300 LOCATE 11, 24: PRINT STRINGS (24, CHR$ (177))
310 LOCATE 14, 25: PRINT "": LOCATE 14, 29: PRINT "R":
320 LOCATE 14, 33: PRINT "S":
330 LOCATE 15, 25: PRINT "4": LOCATE 15, 29: PRINT "5":
340 LOCATE 15, 33: PRINT "6":
350 LOCATE 16, 25: PRINT "1": LOCATE 16, 29: PRINT "2":
360 LOCATE 16, 33: PRINT "3":
370 LOCATE 17, 25: PRINT "0": LOCATE 17, 29: PRINT " ":
380 LOCATE 17, 33: PRINT "20":
390 LOCATE 18, 25: PRINT "": LOCATE 18, 29: PRINT "A":
400 LOCATE 18, 33: PRINT "B":
410 LOCATE 19, 24: PRINT STRINGS (24, CHR$ (176))
420 LOCATE 19, 24: PRINT STRINGS (24, CHR$ (254))
430 LOCATE 19, 24: PRINT "COMMAND": AS
440 LOCATE 19, 20: INPUT "A=": X:
450 LOCATE 19, 20: INPUT "B=": Y: CLS: LOCATE 9, 25: PRINT
460 LOCATE 19, 20: INPUT "X=": Y: CLS: LOCATE 9, 25: PRINT
470 LOCATE 19, 20: INPUT "Y=": X: CLS: LOCATE 9, 25: PRINT
480 LOCATE 19, 20: INPUT "X=": Y: CLS: LOCATE 9, 25: PRINT
490 LOCATE 19, 20: INPUT "Y=": X: CLS: LOCATE 9, 25: PRINT
500 LOCATE 19, 20: INPUT "X=": Y: CLS: LOCATE 9, 25: PRINT
510 LOCATE 19, 20: INPUT "Y=": X: CLS: LOCATE 9, 25: PRINT
520 LOCATE 19, 20: INPUT "X=": Y: CLS: LOCATE 9, 25: PRINT
530 LOCATE 19, 20: INPUT "Y=": X: CLS: LOCATE 9, 25: PRINT
540 CLS: PRINT CHR$ (7): GOTO 90
550 KEY ON: END
```

## কাজী পাই নুর

### পাসওয়ার্ড প্রোগ্রাম

নীচে একটি পাসওয়ার্ড প্রোগ্রাম লেখা হয়েছে। এটি তৈরি করা হয়েছে।

```
10 CLS
20 REM PROGRAM NAME: P-WORD
30 REM PASSWORD CHECKING ROUTINE
40 AS = "MOMEN & MOHIN COMPANY": BS = "DIJAKA"
50 MPWDS = "MOMEN": HDS = "SOFTWARE SECURITY CHECK"
60 CLS: LOCATE 2, (80-LEN(AS))/2: PRINT AS: LOCATE 3, (80-LEN(HS))/2: PRINT BS
70 PRINT: PRINT STRINGS(80, 205)
80 LOCATE 5, (80-LEN(AS))/2: COLOR 0: PRINT IDS: COLOR 7: 0
90 LOCATE 10: 15: PRINT "Enter Your PASSWORD:"
100 R = 100: C = 37: L = 8: GOSUB 150: MPWS = MPWORDS
110 REM L1 = LEN(MPWS): IF L1 > 0 THEN MPWS = MPWS + STRINGS (L1, 32)
120 IF MPWS = MPWDS THEN 130 ELSE 140
130 LOCATE 16: 22: PRINT "***** You are WELCOME *****": CLOSE: STOP
140 LOCATE 16: 22: PRINT "***** You are not an AUTHORIZED user *****": CLOSE: STOP
150 REM INPUT ROUTINE
160 MPWORDS = LOCATE R, C: 1: PRINT "STRINGS(80, 32)": LOCATE R, C
170 IDS = INPUT$(1)
180 IF IDS = CHR$(8) AND LEN(MPWORDS) < 1 THEN GOSUB
190 IF LEN(MPWORDS) > 8 THEN BEEP
200 IF IDS = CHR$ (13) THEN PRINT: RETURN
210 IF (IDS = CHR$ (8) OR IDS = CHR$ (127)) AND LEN(MPWORDS) > 0 THEN
MPWORDS = LEFT$(MPWORDS, LEN(MPWORDS) - 1): PRINT
CHR$(29) + CHR$(32) + CHR$(32)
220 IF (IDS = CHR$(32) OR IDS = CHR$(127)) THEN 170
230 IF LEN(MPWORDS) < 7 THEN 240 ELSE BEEP: GOTO 170
240 MPWORDS = MPWORDS + IDS: PRINT " ": GOTO 170
```

মোহাম্মদ আবু মোয়েন



```

endif
endif
KK = val (substr(PP, x-5, 1))
if x = 6
DD = spel [KK] + " hundred"
TT = "Taka" + DD + EE + FF
return (u)
else
if KK = 0
DD = ""
else
DD = Spel [KK] + "hundred"
endif
endif
if x = 7
LL = val (substr(PP, x-6, 1))
CC = spel [LL] + " thousand"
TT = "Taka" + CC + DD + EE + FF
return (u)
else
LL = val(substr(pp, x-7, 2))
if X = 8
CC = spel [LL] + " thousand"
TT = "Taka" + CC + DD + EE + FF
return (u)
else
if LL = 0
CC = ""
else
CC = spel [LL] + " thousand"
endif
endif
endif
if x = 9
MM = val (substr (pp, x-8, 1))
BB = spel [MM] + " lac"
TT = "Taka" + BB + CC + DD + EE + FF
return(u)
else
MM = val (substr(pp, x-9, 2))
if x = 10
BB = spel [MM] + " lac"
TT = "Taka" + BB + CC + DD + EE + FF
return (u)
else if MM = 0
BB = ""
else
BB = Spel [MM] + " lac"
endif
endif
endif
if X = 11
NN = val (substr (pp, x-10, 1))
AA = spel [NN] + " crore"
TT = "Taka" + AA + BB + CC + DD + EE + FF
return (u)
else
NN = val(substr(PP, x-11, 2))
if X = 12
AA = spel [NN] + " crore"
TT = "Taka" + AA + BB + CC + DD + EE + FF
return (u)
else
if x = 13
OO = val (substr(pp, X-12, 1))
NN = val (substr(pp, x-11, 2))
if NN = 0
AA = " crore"
else
AA = spel [NN] + " crore"
endif
endif
gg = spel [OO] + " hundred"
TT = "Taka" + GG + AA + BB + CC + DD + EE + FF
return (u)
else
TT = "Large Number. . Unable to Spell"
endif
endif
endif
return (TT)
endif
return ""
****End of Sub program ****

```

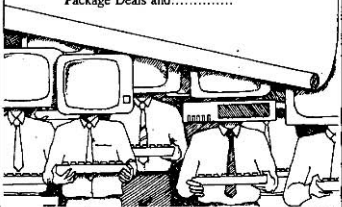
এই ফাংশনটি সম্পূর্ণ অপরিবর্তিত রেখে যে কোন প্রোগ্রামে অন্তর্ভুক্ত করে ব্যবহার করা যাবে। এই Algorithm টি অনুসরণ করে অন্য কোন Programming Package বা Language এর সাহায্যেও প্রোগ্রামটি রচনা করা সম্ভব হবে এবং এতে চাহিদা অনুযায়ী সংখ্যার Range বৃদ্ধি বা হ্রাস করা যাবে। পাঠকদের বৃদ্ধক সুবিধার্থে Algorithm টিকে সহজে করা হয়েছে— ফল প্রোগ্রামটি কিছুটা দীর্ঘ হয়েছে। অথবা Complex Condition ব্যবহার করে Program টিকে আরো সংক্ষিপ্ত করা যাবে।

ফরিদ আহমেদ

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