

```

10REMARKABLE Title Page
20CLEAR:CLS:BACKG2:PRINT@ (11,5)"!E!J!M!DREMARKABLE DOODLE PAD !\"
30CLR=1:SELECT2:CLS:SELECT4:CLS:SELECT1:PRINT@ (20,3)"!E!J!BDo You Want Instructi
ons ? !\";SELECT3:Z#=INCH$(0);CLS:IFZ#="N"ORZ#="n"GOTO40ELSESELECT1:PRINT@ (5,8
)"!H!M!EJUST A MINUTE!";PRINT@ (20,0)STRING$(40):GOSUB1180:SELECT4:CLS
40X=101:Y=119:STX=X:STY=Y:LSTX=X:LSTY=Y:E=1:F=1:DIMPEN$(1),DT(30),CR$(30):PEN$(1
)="U":PEN$(0)="D"
50ONKEY16GOTO530
60REMARKABLE Main Part of Programme
70IFGRPH=1RETURNELSEONERRORGOTO3110:DISPLAY2:BACKG(B):DISPLAY3OFF:DISPLAY4:Z=0:D
ISPLAY1OFF:MIX4,MX:IFE=0SELECT4:COLORD:SET(X,Y)
75IFGRD=0SELECT2:CLS
80IFFSELECT2:CLS:COLOR1:MIX2,2:SET(X,Y)
90SELECT3:IFC PRINT@ (20,38)CHR$(C+MX):PEN$(E)ELSEPRINT@ (20,37)"!G!HE"
100DISPLAY3:SELECT1:CLS:Z#=INCH$(0):LN=0
110IF Z#=" "FM=1:LSTX=X:LSTY=Y:ONM GOTO630,640,650,660,0,670,680,690,700
120IF Z#="L"ORZ#="l"LSTX=X:LSTY=Y:LN=1:X1=X:X2=X:Y1=Y:Y2=Y:GOTO2130
130IF Z#="M"ORZ#="m"MOVE=1:K=1:GOTO2110
140IF Z#="O"ORZ#="o"SR=1:GOTO810
150IF Z#="F"ORZ#="f"SHAPE=2:GOTO3740
160IF Z#="S"SHAPE=1:GOSUB3740:GOTO70
170IF Z#="H"GOTO3710
180IF Z#="T"ORZ#="t"GOTO2740
190IF Z#="S"ORZ#="s"GOTO1290
200IF Z#="U"ORZ#="u"GOTO770
210IF Z#="E"ORZ#="e"GOTO810
220IF Z#="H"ORZ#="h"LSTX=X:LSTY=Y:X=101:Y=119:GOTO70
230IFZ#="A"ORZ#="a"LSTX=X:LSTY=Y:LN=2:GOTO1120
240IFZ#="!"STX=X:STY=Y:GOTO70
250IFZ#="~"LSTX=X:LSTY=Y:SWAPSTX,X:SWAPSTY,Y:GOTO70
260IFZ#="@"LSTX=X:LSTY=Y:X=STX:Y=STY:GOTO70
270IFZ#="*"X=LSTX:Y=LSTY:GOTO70
280IFZ#="P"ORZ#="p"Z=1:GOTO1290
290IF Z#="R"ORZ#="r"GOTO 880
300IF Z#="G"ORZ#="g"GOTO 3180
310IFZ#="."E=0
320IFZ#="O"E=1
330IFZ#="I"ORZ#="i"GOSUB 1180:GOTO70
340IF Z#="X" OR Z#="x"IFC<>OCLR=C:MX=0:C=0:GOTO70
350IFZ#="W"ORZ#="w"DISPLAY1:PRINT@ (21,10)CHR$(C):"!MCOMPLETELY (Y/N) ";:V#=INCH$(
0):CLS:IFV#="N"DRV#="n"THENK=1:PC=1:GOTO2100ELSEIFV#="y"DRV#="Y"SELECT4:CLS:GOT
O70ELSE70
360IF Z#="B" OR Z#="b"B=B+1:IFB=8B=0
370IF Z#="C"OR Z#="c" GOTO720
380IF Z#="D" OR Z#="d" GOTO 1920
390IFZ#="5"IFF=1F=0:SELECT2:CLS:GOTO70ELSEF=1:GOTO70
400REMARKABLE Movement
410LSTX=X:LSTY=Y
420IF Z#="6"Y=Y+5/7:GOTO560
430IF Z#="4"Y=Y-5/7:GOTO560
440IF Z#="8"X=X-1:GOTO560
450IF Z#="2"X=X+1:GOTO560
460IF Z#="9"X=X-1:Y=Y+5/7:GOTO560
470IF Z#="7"X=X-1:Y=Y-5/7:GOTO560
480IF Z#="3"X=X+1:Y=Y+5/7:GOTO560
490IF Z#="1"X=X+1:Y=Y-5/7:GOTO560
500GOTO70
510REMARKABLE Help Key
520IFGRD=0SELECT2:CLS
530SELECT3:CLS:GRPH=0:LN3=0:IFB#="G"Z#="!@":X=XXX:Y=YYY

```

```

540RESUME70
550REMARKABLE Limit Check
560m=VAL(Z#)
570IF X<0IFE=1X=203ELSEX=0
580IF X>203IFE=1X=0ELSEX=203
590IF Y>239IFE=1Y=0ELSEY=239
600IF Y<0IFE=1Y=239ELSEY=0
610IFE=0ANDFM=1FM=0:COLOR1:SET(X,Y):SELECT4:COLORC:LINELSTX,LSTY,X,Y:GOTO70ELSEM
=0:GOTO70
620REMARKABLE Fast Move
630X=X+10:GOTO660
640X=X+10:GOTO570
650X=X+10:GOTO670
660Y=Y-50/7:GOTO570
670Y=Y+50/7:GOTO570
680X=X-10:GOTO660
690X=X-10:GOTO570
700X=X-10:GOTO670
710REMARKABLE Color
720IFC=0C=CLR:GOTO760
730C=CLR:C=C+1:IFC=6C=1
740IFC=3C=4
750IFC=5C=7
760CLR=C:IFCR=0GOTO70ELSE1010
770REMARKABLE United colour
780MX=MX+1:IFMX=5MX=0ELSEIFMX=3MX=4
790IFMX=6GOTO780ELSE70
800REMARKABLE Ovals , Circles & Rectangles
810DISPLAY1:IFSR=0PRINT@ (21,5)CHR$(C);"!MMinor Axis Length";ELSEPRINT@ (21,5)CHR$
(C);"!MShortest Side Length";
820INPUTV:CLS:V=V/2
830IFSR=0PRINT@ (21,5)CHR$(C);"!MMajor Axis Length";ELSEPRINT@ (21,5)CHR$(C);"!MLo
ngest Side Length";
840INPUTR:R=R/2:CLS:W=V/R
850IFSR=0PRINT@ (21,5)CHR$(C);"!MAngle of Major Axis ";ELSEPRINT@ (21,0)CHR$(C);"!
MAngle of Longest Side ";
860INPUTA:CLS:IFA>=180DRA<0GOTO850
870A=PI-A*PI/180:IFSR=1SR=0:GOTO1070ELSEGOTO900
880DISPLAY1:PRINT@ (21,10)CHR$(C);"!MRADIUS ";:INPUTR:CLS:W=1:IF R>399 GOTO880
890PRINT@ (21,0)CHR$(C);"!MBearing of Starting Point ";:INPUTA:CLS:IFA>=360DRA<0G
OTO890ELSEA=PI-(A+45)*PI/180
900ET=PI*R/120:SE=INT(60*(ET-INT(ET))):IFET<1/3GOTO940ELSEPRINT@ (21,0)"!CIMEstim
ated Time ";:IFET<>0PRINT"!CIM";INT(ET);" m";
910IFSE<>0PRINT"!CIM";SE;" s";
920WAIT200:CLS
930PRINT@ (21,5)"!CIMBo Ahead (Y/N) ?":Z$=INCH$:IFZ$="N"ORZ$="n"CLS:GOTO70ELSEIFZ
$<>"Y"ANDZ$<>"y"GOTO930
940CLS:FOR S=R*SQR(.5)TO-R*SQR(.5)STEP-1:YY=-W*SQR(R*R-S*S):XX=S:GOSUB980:NEXT
950FOR S=-R*SQR(.5)TOR*SQR(.5):XX=-SQR(R*R-S*S):YY=S*W:GOSUB980:NEXT
960FOR S=-R*SQR(.5)TOR*SQR(.5):YY=W*SQR(R*R-S*S):XX=S:GOSUB980:NEXT
970FOR S=R*SQR(.5)TO-R*SQR(.5)STEP-1:XX=SQR(R*R-S*S):YY=S*W:GOSUB980:NEXT:GOTO70
980xx=X-XX*SIN(A)-YY*COS(A):yy=Y+(XX*COS(A)-YY*SIN(A))*(5/7)
990Z$=INCH$:IFZ$="."E=0ELSEIFZ$="0"E=1
1000IF Z$="C"OR Z$="c"CR=1:GOTO720
1010CR=0:IFZ$="5"F=ABS(F-1):IFF=0SELECT2:CLS
1020IF Z$="X" OR Z$="x"IFC<>0CLR=C:C=0
1030SELECT3:PRINT@ (20,37)CHR$(C);PEN$(E):DISPLAY3
1040SELECT4:IF E=0COLORC:SET (xx,yy)
1050DISPLAY2:COLOR1:MIX2,2:IFF=1SELECT2:CLS:SET (xx,yy):IFB$="G"DRAWAXIS$
1060RETURN

```

```

070REMARKABLE RECTANGLES
080Z=1:SELECT4:Q=1:X1=-V:yy=-R:GDSUB1090:yy=R:GDSUB1090:X1=V:GDSUB1090:yy=-R:GO
SUB1090:X1=-V:GDSUB1090:GOTO1430
090XX=X+X1*SIN(A)+yy*COS(A):YY=Y+(X1*COS(A)-yy*SIN(A))*5/7
100IFQ=1Q=0:SHAPE$=LDES$(0,0):X2=XX:Y2=YY:RETURN
110SHAPE$=SHAPE$+LDES$(XX,YY,X2,Y2):X2=XX:Y2=YY:RETURN
120REMARKABLE Lines at any Angle
130DISPLAY1:PRINT$(21,3)CHR$(C);"!MANGLE as a BEARING ";:INPUTA:A=A*PI/180
140CLS:PRINT$(21,10)CHR$(C);"!MLENGTH ";:INPUTL
150SELECT1:CLS:V=X-L*COS(A):W=Y+SQR(.5)*L*SIN(A):IF V>=204ORV<ODRW<ODRW>=240CLS
:PRINT$(21,10)CHR$(C);"!H!MToo Long !":WAIT200:GOTO1140
160IFE=0 SELECT4:COLORC:LINEX,Y,V,W:IFGRPH=1RETURN
170X=V:Y=W:GOTO70
180REMARKABLE Cursor Instructions
200DISPLAY2OFF:DISPLAY1:SELECT2:CLS:MIX2,1:DRAW#"DOODLE.KEY":BACKG4:DISPLAY2:SE
LECT1:CLS:DISPLAY1:GDSUB1260
210REMARKABLE Instructions
220BACKG1:DISPLAY4OFF:SELECT2:CLS:SELECT1:CLS:DISPLAY1:A=1:A$="STANDARD DOODLE
PATTERN WITH THE!CYellow ":IFPC=1ORC=0COLORC
260PRINT$(22,5)"!C!PArrow Keys!FAnd!C Press Enter ":IFC=0ORFC=1PRINT$(0,32)"!H!
ERASE"
270DISPLAY2:SELECT1:CLS:DISPLAY1:hZ=34:vt=0:HZ=34:VT=10
280PRINT$(VT,HZ)"!H!V";CHR$(127):PRINT$(vt,hz+2)" "
290ZF$=INCH$:IFZ$=""!Y"hZ=HZ:vt=VT:VT=VT-4:IFVT<2VT=18:GOTO1680ELSE1680
300IFZ$=""!X"vt=VT:hZ=HZ:VT=VT+4:IFVT>20VT=2:GOTO1680ELSE1680
310IFZ$=""!H"hZ=HZ:vt=VT:HZ=HZ-15:IFHZ<4HZ=34:GOTO1680ELSE1680
320IFZ$=""!I"hZ=HZ:vt=VT:HZ=HZ+15:IFHZ>34HZ=4:GOTO1680ELSE1680
330IFZ$=""!M"SELECT3:CLS:IFC=0ORPC=1COLORC:GOTO1750ELSESELECT1:CLS:PRINT$(21,5)C
HR$(C);"!MClear before Fill ?":F$=INCH$(0):IFF$=""Y"ORF$=""y"SELECT4:COLORC:FILL$
SHAPE$:COLORC:GOTO1750ELSE1750
340GOTO1690
350SELECT1:CLS:SELECT2:CLS:SELECT4:DISPLAY4:IFHZ<>4GOTO1800ELSEIFVT=2FILLUSING2
1,1;SHAPE$
360IFVT=6FILLUSING50;SHAPE$
370IFVT=10FILLUSING42;SHAPE$
380IFVT=14FILLUSING56,5;SHAPE$
390IFVT=18FILLUSING36,2;SHAPE$
400IFHZ<>19GOTO1850ELSEIFVT=2FILLUSING32,2;SHAPE$
410IFVT=6FILLUSING31,1;SHAPE$
420IFVT=10FILLUSING50,1;SHAPE$
430IFVT=14FILLUSING56,1;SHAPE$
440IFVT=18FILLUSING36,4;SHAPE$
450IFHZ<>34GOTO1900ELSEIFVT=2FILLUSING31,2;SHAPE$
460IFVT=6FILLUSING1,1;SHAPE$
470IFVT=10FILLSHAPE$
480IFVT=14FILLUSING27,1;SHAPE$
490IFVT=18FILLUSING27,5;SHAPE$
500SELECT3:CLS:IFGRPH=1RETURNELSEPC=0:COLORC:GOTO70
510REMARKABLE Disk Usage Menu
520DISPLAY4OFF:DISPLAY3OFF:BACKG4:DISPLAY2OFF:GRD=0
530PRINT$(0,12)"!C!MDisk Utilities"
540PRINT$(4,1)"!BReturn to Programme"
550PRINT$(7,1)"!BCatalogue of DOODLE Files"
560PRINT$(14,1)"!BRetrieve From Disk"
570PRINT$(19,1)"!BStore on Disk":G=1:H=2:DISPLAY1
580SELECT3:CLS:DISPLAY3:FORI=3TO18STEP5:PRINT$(I,30)"!R<,1!"!R5";CHR$(127);"!"
"!R->."":NEXT:I:SELECT1:PRINT$(21,0)"!P!Fuse The!CArrow keys!FTo Select Then!CEnte
r!"
590PRINT$(G*5-1,29)"!H!LIU";CHR$(127);
600PRINT$(H*5-1,29)" "

```

```

2010Z#="INCH#":IFZ#="Y"R=G:G=G-1:IFG=OG=4
2020IFZ#="X"R=G:G=G+1:IFG=5G=1
2030IFZ#<>"M"GOTO1990
2040SELECT3:CLS:SELECT1:CLS:IFG=1GOTO70
2050REMARKABLE Catalogue of Data Files
2060IFG=2PRINT@ (0,5)"M:CCatalogue of Doodle Files":SPLIT1:PRINT@ (1,0);:EXEC"CAT
.PAD":SPLIT24:GOSUB1260:PRINT@ (0,3)"M:CCatalogue of Doodle Printouts":SPLIT1:P
RINT@ (1,0);:EXEC"cat .dp":SPLIT24:GOSUB1260:GOTO1920

2070REMARKABLE Retrieve From Disk
2080IFG=3PRINT@ (21,9)CHR$(C);"MFile Name ";:INPUTA$:MIX2,MX:SELECT2:CLS:DISPLAY
2:BACKG(B):COLORC:DRAW#A#+".PAD":SELECT1
2090IFG=3CLS:PRINT@ (21,5)CHR$(C);"MEnter In Doodle (Y/N) ";:Z#=INCH$(O):IFZ#="N
"QRZ#="n"CLS:GOTO70ELSECLS:PRINT@ (21,10)"M:HICENTERING":SELECT4:DRAW#A#+".PAD":
DISPLAY20FF:GOTO70
2100REMARKABLE Storage Place Selection & Length
2110DISPLAY4:DISPLAY20FF:BACKG(B):SELECT1:DISPLAY1:PRINT@ (21,7)CHR$(C);"MWhole
Screen (Y/N) ?":Z#=INCH$(O):CLS:IFZ#="Y"QRZ#="y"CLS:L=0:R=203:T=0:J=239:IFPC=1C
OLORO:GOTO2490ELSEIFB#="B"GOTO3060ELSECLS:GOTO2550
2120IFZ#<>"N"ANDZ#<>"n"GOTO2110ELSEL=0:T=0:R=203:J=239
2130K=i:CLS:SELECT3:DISPLAY3:IFLN=OPRINT@ (21,3)"P!FMove the!C Left , Top !FCorn
er ":PRINT@ (22,2)"P!Finto Position. Using the!FArrows ":GOTO2150
2140DISPLAY20FF:PRINT@ (21,1)"P!FMove the First Point!Finto Position ":PRINT@ (2
2,6)"P!FUsing the!CYellow Arrows ":IFLN=3AND LN3=OPRINT@ (21,12)"PNext "
2150PRINT@ (23,10)"P!FThen !CPress Next";
2160DISPLAY10FF:SELECT2:DISPLAY2:CLS:COLOR1:MIX2,2:IFLN=OLINEL,T,L,J,R,J,R,T,L,T
:IFG#="G"DRAWAXIS#ELSEGOTO2170ELSELINEX2,Y2,X1,Y1
2170SELECT1:Z#=INCH$(O)
2180IFZ#="S"K=K+1:IFK=25SELECT3:IFLN=OPRINT@ (21,13)"PRight, Bottom"ELSEIFLN=3RET
URNELSEPRINT@ (21,11)"PSecond":IFLN<>4X2=X1:Y2=Y1:X1=X:Y1=YELSESWAPX1,X2:SWAPY1,
Y2
2190IFZ#="I"ANDK>2IFPC=1COLORO:GOTO2490ELSEIFRT=1RT=0:GOTO2890ELSEIFLN=1GOTO251
0ELSEIFK=3

```