**CODE:**

;----------------------------------------------------------------------------------

;initialising variables

;----------------------------------------------------------------------------------

.MODEL LARGE

.STACK 1000H

.DATA

M1 DB 10,13,10,13,' \*\*\*\*Welcome to Our Restaurant\*\*\*\*$',10,13

M2 DB 10,13,10,13,'Enter your Choice $'

M3 DB 10,13,' \*\* 1. Breakfast Menu \*\*$'

M4 DB 10,13,' \*\* 2. Lunch Menu \*\*$'

M0 DB 10,13,' \*\* 3. Dinner Menu \*\*$'

M8 DB 10,13,10,13,'\*\*\* Choose your food/drink from the menu \*\*\*$'

;BREAKFAST

M9 DB 10,13,' \*\* 1. Tomato Omlett 10/- \*\*$'

M10 DB 10,13,' \*\* 2. Corn Flakes 10/- \*\*$'

M11 DB 10,13,' \*\* 3. Parata 10/- \*\*$'

M12 DB 10,13,' \*\* 4. Dal 10/- \*\*$'

M13 DB 10,13,' \*\* 5. Mixed Sprouts 20/- \*\*$'

M14 DB 10,13,' \*\* 6. Masala Dosai 20/- \*\*$'

M15 DB 10,13,' \*\* 7. Poha 10/- \*\*$'

M16 DB 10,13,' \*\* 8. Upma 20/- \*\*$'

M17 DB 10,13,' \*\* 9. Bread Butter 60/- \*\*$'

;LUNCH

M25 DB 10,13,' \*\* 1. Butter Roti 90/- \*\*$'

M26 DB 10,13,' \*\* 2. Butter Naan 90/- \*\*$'

M27 DB 10,13,' \*\* 3. Dal Tadka 30/- \*\*$'

M28 DB 10,13,' \*\* 4. Paneer Butter Masala 90/- \*\*$'

M29 DB 10,13,' \*\* 5. Veg Kadai 90/- \*\*$'

M30 DB 10,13,' \*\* 6. Veg Biryani 10/- \*\*$'

M31 DB 10,13,' \*\* 7. Paneer Tikka 30/- \*\*$'

M32 DB 10,13,' \*\* 8. Mushrooms 30/- \*\*$'

M33 DB 10,13,' \*\* 9. Gulab Jamun 30/- \*\*$'

;DINNER

M18 DB 10,13,' \*\* 1. Butter Roti 60/- \*\*$'

M19 DB 10,13,' \*\* 2. Butter Naan 80/- \*\*$'

M20 DB 10,13,' \*\* 3. Paneer Tikka 80/- \*\*$'

M21 DB 10,13,' \*\* 4. Manchurian(Dry,Gravy) 80/- \*\*$'

M22 DB 10,13,' \*\* 5. Burger (Veg,Chicken) 50/- \*\*$'

M23 DB 10,13,' \*\* 6. Veg Bhuna 70/- \*\*$'

M34 DB 10,13,' \*\* 7. Pizza (Paneer,Veggie) 60/- \*\*$'

M35 DB 10,13,' \*\* 8. Pasta (Red,White,Pink) 60/- \*\*$'

M36 DB 10,13,' \*\* 9. Hakka Noodles 60/- \*\*$'

;INVALID

M55 DB 10,13,10,13,'\*\*\* &&INVALID ENTRY&& \*\*\*$'

M56 DB 10,13,'\*\*\* &&Try Again&& \*\*\*$'

M57 DB 10,13,10,13,'Enter your order: $'

M58 DB 10,13,'Quantity: $'

M59 DB 10,13,'Total Price: $'

M60 DB 10,13,10,13,'1. Go back to main menu$'

M61 DB 10,13,'2. EXIT$'

;STAR RESIZE

MR1 DB 10,13,' \*\* \*\*$'

MR2 DB 10,13,' \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*$'

MR3 DB 10,13,' \*\* \*\*$'

MR4 DB 10,13,' \*\* \*\*$'

MR5 DB 10,13,' \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*$'

MR6 DB 10,13,' \*\* \*\*$'

MR7 DB 10,13,' \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*$'

;NEWLINE

SEJ DB 10,13,10,13,' $'

;----------------------------------------------------------------------------------

;main code starts

;----------------------------------------------------------------------------------

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

TOP:

LEA DX,M1

MOV AH,9

INT 21H

LEA DX,SEJ ;newline

MOV AH,9

INT 21H

LEA DX,MR2

MOV AH,9

INT 21H

LEA DX,MR2

MOV AH,9

INT 21H ;border

LEA DX,MR3

MOV AH,9

INT 21H

;displaying the choices for menu

LEA DX,M3

MOV AH,9

INT 21H

LEA DX,M4

MOV AH,9

INT 21H

LEA DX,M0

MOV AH,9

INT 21H

;border

LEA DX,MR1

MOV AH,9

INT 21H

LEA DX,MR2

MOV AH,9

INT 21H

LEA DX,MR2

MOV AH,9

INT 21H

;displaying message to enter choice

LEA DX,M2

MOV AH,9

INT 21H

;taking input for choice of menu

MOV AH,1

INT 21H

MOV BH,AL

SUB BH,48

;jumping to chosen menu

CMP BH,1

JE BREAKFAST

CMP BH,2

JE LUNCH

CMP BH,3

JE DINNER

JMP INVALID

;----------------------------------------------------------------------------------

;breakfast section

;----------------------------------------------------------------------------------

BREAKFAST:

LEA DX,M8 ;displaying message to choose your food

MOV AH,9

INT 21H

LEA DX,SEJ ;newline

MOV AH,9

INT 21H

;border

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR4

MOV AH,9

INT 21H

;breakfast menu items

LEA DX,M9 ;item 1

MOV AH,9

INT 21H

LEA DX,M10 ;item 2

MOV AH,9

INT 21H

LEA DX,M11 ;item 3

MOV AH,9

INT 21H

LEA DX,M12 ;item 4

MOV AH,9

INT 21H

LEA DX,M13 ;item 5

MOV AH,9

INT 21H

LEA DX,M14 ;item 6

MOV AH,9

INT 21H

LEA DX,M15 ;item 7

MOV AH,9

INT 21H

LEA DX,M16 ;item 8

MOV AH,9

INT 21H

LEA DX,M17 ;item 9

MOV AH,9

INT 21H

;border

LEA DX,MR4

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

;displaying message to enter order

LEA DX,M57

MOV AH,9

INT 21H

;taking order input

MOV AH,1

INT 21H

MOV BL,AL

SUB BL,48

;jumping to the price of chosen item

CMP BL,1

JE TEN

CMP BL,2

JE TEN

CMP BL,3

JE TEN

CMP BL,4

JE TEN

CMP BL,5

JE TWENTY

CMP BL,6

JE TWENTY

CMP BL,7

JE TEN

CMP BL,8

JE TWENTY

CMP BL,9

JE SIXTY

JMP INVALID

;----------------------------------------------------------------------------------

;lunch section

;----------------------------------------------------------------------------------

LUNCH:

;LUNCH

LEA DX,M8

MOV AH,9

INT 21H

LEA DX,SEJ ;NEWLINE

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

;STAR BORDER

LEA DX,MR4

MOV AH,9

INT 21H

LEA DX,M25 ;1th

MOV AH,9

INT 21H

LEA DX,M26 ;2th

MOV AH,9

INT 21H

LEA DX,M27 ;3rd

MOV AH,9

INT 21H

LEA DX,M28 ;4th

MOV AH,9

INT 21H

LEA DX,M29 ;5th

MOV AH,9

INT 21H

LEA DX,M30 ;6th

MOV AH,9

INT 21H

LEA DX,M31 ;7th

MOV AH,9

INT 21H

LEA DX,M32 ;8th

MOV AH,9

INT 21H

LEA DX,M33 ;9th

MOV AH,9

INT 21H

LEA DX,MR4

MOV AH,9

INT 21H

;STAR BORDER

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,M57

MOV AH,9

INT 21H

MOV AH,1

INT 21H

MOV BL,AL

SUB BL,48

CMP BL,1

JE NINETY

CMP BL,2

JE NINETY

CMP BL,3

JE THIRTY

CMP BL,4

JE NINETY

CMP BL,5

JE NINETY

CMP BL,6

JE TEN

CMP BL,7

JE THIRTY

CMP BL,8

JE THIRTY

CMP BL,9

JE THIRTY

JMP INVALID

;----------------------------------------------------------------------------------

;dinner section

;----------------------------------------------------------------------------------

DINNER:

LEA DX,M8

MOV AH,9 ;DINNER STARTS

INT 21H

LEA DX,SEJ ;NEWLINE

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H ;BORDER

LEA DX,MR4

MOV AH,9

INT 21H

LEA DX,M18 ;item 1

MOV AH,9

INT 21H

LEA DX,M19 ;item 2

MOV AH,9

INT 21H

LEA DX,M20 ;item 3

MOV AH,9

INT 21H

LEA DX,M21 ;item 4

MOV AH,9

INT 21H

LEA DX,M22 ;item 5

MOV AH,9

INT 21H

LEA DX,M23 ;item 6

MOV AH,9

INT 21H

LEA DX,M34 ;item 7

MOV AH,9

INT 21H

LEA DX,M35 ;item 8

MOV AH,9

INT 21H

LEA DX,M36 ;item 9

MOV AH,9

INT 21H

;border

LEA DX,MR4

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,MR5

MOV AH,9

INT 21H

LEA DX,M57

MOV AH,9

INT 21H

MOV AH,1

INT 21H

MOV BL,AL

SUB BL,48

CMP BL,1

JE SIXTY

CMP BL,2

JE EIGHTY

CMP BL,3

JE EIGHTY

CMP BL,4

JE EIGHTY

CMP BL,5

JE FIFTY

CMP BL,6

JE SEVENTY

CMP BL,7

JE SIXTY

CMP BL,8

JE SIXTY

CMP BL,9

JE SIXTY

;----------------------------------------------------------------------------------

;price labels

;----------------------------------------------------------------------------------

TEN:

MOV BL,1

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

TWENTY:

MOV BL,2

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

THIRTY:

MOV BL,3

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

FOURTY:

MOV BL,4

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H ;main menu

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

FIFTY:

MOV BL,5

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48 ;MAIN MENU

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

SIXTY:

MOV BL,6

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H ;main menu

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

SEVENTY:

MOV BL,7

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H ;main menu

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

;----------------------------------------------------------------------------------

EIGHTY:

MOV BL,8

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2 ;main menu

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

JMP EXIT

;----------------------------------------------------------------------------------

NINETY:

MOV BL,9

LEA DX,M58

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

MUL BL

AAM

MOV CX,AX

ADD CH,48

ADD CL,48

LEA DX,M59

MOV AH,9

INT 21H

MOV AH,2

MOV DL,CH

INT 21H

MOV DL,CL

INT 21H

MOV DL,'0'

INT 21H

;for printing /-

MOV DL,47

INT 21H

MOV DL,45

INT 21H

;go back to main menu

LEA DX,M60

MOV AH,9

INT 21H

LEA DX,M61

MOV AH,9

INT 21H

LEA DX,M2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,48

CMP AL,1

JE TOP

JMP EXIT

JMP EXIT

;----------------------------------------------------------------------------------

;invalid choice

;----------------------------------------------------------------------------------

INVALID:

LEA DX,M55

MOV AH,9

INT 21H

LEA DX,M56

MOV AH,9

INT 21H

JMP EXIT

;----------------------------------------------------------------------------------

EXIT:

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

;----------------------------------------------------------------------------------

;end of code

;----------------------------------------------------------------------------------