**COAL PROJECT CODE**

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include irvine32.inc

buffersize=501

.data

names byte buffersize dup(?)

rollno byte buffersize dup(?)

filename byte "coalproject.txt",0

filehandle handle ?

stringlength dword ?

str1 byte "Name: ",0

str2 byte "Roll.No: ",0

extras byte 10

.data

WelcomeMsg1 BYTE "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Coal Project Personality/Quiz Game \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*", 0

WelcomeMsg2 Byte "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Created by Rameen Saleem & Tooba Jatoi \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*", 0

welcome\_msg db "Welcome to the MBTI Personality Quiz!", 0

enter\_name\_msg db "Enter your name: ", 0

name\_input db 50 DUP(?)

question1 db "1. Do you prefer spending time alone (a) or with a group of people (b)?", 0

question2\_extrovert db "2. How do you energize? (a) Being around people (b) Spending time alone", 0

question2\_introvert db "2. How do you energize? (a) Spending time alone (b) Being around people", 0

question3\_sensing db "3. How do you prefer to take in information? (a) Focusing on details (b) Looking at the big picture", 0

question3\_intuition db "3. How do you prefer to take in information? (a) Looking at the big picture (b) Focusing on details", 0

question4\_thinking db "4. How do you make decisions? (a) Logic and consistency (b) Consideration of people and special circumstances", 0

question4\_feeling db "4. How do you make decisions? (a) Consideration of people and special circumstances (b) Logic and consistency", 0

result\_msg db "Your MBTI personality type is: ", 0

exit\_msg db "Thanks for playing the MBTI Personality Quiz! Goodbye!", 0

invalid\_msg db "Invalid input! Please choose a valid option.", 0

type\_istj db "ISTJ - The Inspector", 0

type\_isfj db "ISFJ - The Protector", 0

type\_infj db "INFJ - The Counselor", 0

type\_intj db "INTJ - The Mastermind", 0

type\_istp db "ISTP - The Craftsman", 0

type\_isfp db "ISFP - The Composer", 0

type\_infp db "INFP - The Healer", 0

type\_intp db "INTP - The Architect", 0

type\_estp db "ESTP - The Dynamo", 0

type\_esfp db "ESFP - The Performer", 0

type\_enfp db "ENFP - The Champion", 0

type\_entp db "ENTP - The Visionary", 0

type\_estj db "ESTJ - The Supervisor", 0

type\_esfj db "ESFJ - The Provider", 0

type\_enfj db "ENFJ - The Teacher", 0

type\_entj db "ENTJ - The Commander", 0

.code

main proc

mov eax,yellow + (blue\*16)

call SetTextColor

mov edx, OFFSET WelcomeMsg1

call WriteString

call crlf

mov edx, OFFSET WelcomeMsg2

call WriteString

call crlf

;opening file

mov edx,offset filename

call createoutputfile

mov filehandle,eax

;writing name

call Crlf

mov edx, OFFSET welcome\_msg

call WriteString

mov edx, OFFSET enter\_name\_msg

call WriteString

mov edx, OFFSET name\_input

mov ecx, SIZEOF name\_input

call ReadString

call Crlf

mov edx,offset str1

call writestring

mov ecx,buffersize

mov edx,offset names

call readstring

call crlf

mov stringlength,eax

mov eax,filehandle

mov edx,offset names

mov ecx,stringlength

call writetofile

;writing next line to file

mov eax,filehandle

mov edx,offset extras

mov ecx,lengthof extras

call writetofile

;writing rollno to the file

mov edx,offset str2

call writestring

mov ecx,buffersize

mov edx,offset rollno

call readstring

call crlf

mov stringlength,eax

mov eax,filehandle

mov edx,offset rollno

mov ecx,stringlength

call writetofile

;writing next line to file

mov eax,filehandle

mov edx,offset extras

mov ecx,lengthof extras

call writetofile

mov eax,yellow + (red\*16)

call SetTextColor

; Ask the first question

mov edx, OFFSET question1

call WriteString

call Crlf

; Get user input

mov edx, OFFSET invalid\_msg ; Default message for invalid input

call ReadChar

mov bl, al

call Crlf

; Check the answer to the first question

cmp bl, 'a'

je introvert

cmp bl, 'b'

je extrovert

jmp invalid\_input

introvert:

; Ask the second question for introverts

mov edx, OFFSET question2\_introvert

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

call Crlf

; Check the answer to the second question for introverts

cmp bl, 'a'

je introvert\_energize\_alone

cmp bl, 'b'

je introvert\_energize\_people

jmp invalid\_input

introvert\_energize\_alone:

; Ask the third question for introverts who energize alone

mov edx, OFFSET question3\_intuition

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

call Crlf

; Check the answer to the third question for introverts who energize alone

cmp bl, 'a'

je introvert\_energize\_alone\_details

cmp bl, 'b'

je introvert\_energize\_alone\_big\_picture

jmp invalid\_input

introvert\_energize\_people:

; Ask the third question for introverts who energize around people

mov edx, OFFSET question3\_intuition

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the third question for introverts who energize around people

cmp bl, 'a'

je introvert\_energize\_people\_details

cmp bl, 'b'

je introvert\_energize\_people\_big\_picture

jmp invalid\_input

introvert\_energize\_alone\_details:

; Ask the fourth question for introverts who energize alone and focus on details

mov edx, OFFSET question4\_thinking

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for introverts who energize alone and focus on details

cmp bl, 'a'

je result\_istj

cmp bl, 'b'

je result\_isfj

jmp invalid\_input

introvert\_energize\_alone\_big\_picture:

; Ask the fourth question for introverts who energize alone and look at the big picture

mov edx, OFFSET question4\_feeling

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for introverts who energize alone and look at the big picture

cmp bl, 'a'

je result\_infj

cmp bl, 'b'

je result\_intj

jmp invalid\_input

introvert\_energize\_people\_details:

; Ask the fourth question for introverts who energize around people and focus on details

mov edx, OFFSET question4\_thinking

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for introverts who energize around people and focus on details

cmp bl, 'a'

je result\_istp

cmp bl, 'b'

je result\_isfp

jmp invalid\_input

introvert\_energize\_people\_big\_picture:

; Ask the fourth question for introverts who energize around people and look at the big picture

mov edx, OFFSET question4\_feeling

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for introverts who energize around people and look at the big picture

cmp bl, 'a'

je result\_infj

cmp bl, 'b'

je result\_intj

jmp invalid\_input

extrovert:

; Ask the second question for extroverts

mov edx, OFFSET question2\_extrovert

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the second question for extroverts

cmp bl, 'a'

je extrovert\_energize\_people

cmp bl, 'b'

je extrovert\_energize\_alone

jmp invalid\_input

extrovert\_energize\_people:

; Ask the third question for extroverts who energize around people

mov edx, OFFSET question3\_sensing

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the third question for extroverts who energize around people

cmp bl, 'a'

je extrovert\_energize\_people\_details

cmp bl, 'b'

je extrovert\_energize\_people\_big\_picture

jmp invalid\_input

extrovert\_energize\_alone:

; Ask the third question for extroverts who energize alone

mov edx, OFFSET question3\_sensing

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the third question for extroverts who energize alone

cmp bl, 'a'

je extrovert\_energize\_alone\_details

cmp bl, 'b'

je extrovert\_energize\_alone\_big\_picture

jmp invalid\_input

extrovert\_energize\_people\_details:

; Ask the fourth question for extroverts who energize around people and focus on details

mov edx, OFFSET question4\_feeling

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for extroverts who energize around people and focus on details

cmp bl, 'a'

je result\_estp

cmp bl, 'b'

je result\_esfp

jmp invalid\_input

extrovert\_energize\_people\_big\_picture:

; Ask the fourth question for extroverts who energize around people and look at the big picture

mov edx, OFFSET question4\_thinking

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for extroverts who energize around people and look at the big picture

cmp bl, 'a'

je result\_enfp

cmp bl, 'b'

je result\_entp

jmp invalid\_input

extrovert\_energize\_alone\_details:

; Ask the fourth question for extroverts who energize alone and focus on details

mov edx, OFFSET question4\_thinking

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for extroverts who energize alone and focus on details

cmp bl, 'a'

je result\_estj

cmp bl, 'b'

je result\_esfj

jmp invalid\_input

extrovert\_energize\_alone\_big\_picture:

; Ask the fourth question for extroverts who energize alone and look at the big picture

mov edx, OFFSET question4\_feeling

call WriteString

call Crlf

; Get user input

call ReadChar

mov bl, al

; Check the answer to the fourth question for extroverts who energize alone and look at the big picture

cmp bl, 'a'

je result\_enfj

cmp bl, 'b'

je result\_entj

jmp invalid\_input

result\_istj:

call crlf

mov edx, OFFSET result\_msg

call crlf

call WriteString

call Crlf

mov edx, OFFSET type\_istj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_istj

mov ecx, SIZEOF type\_istj

call writetofile

jmp exit\_game

result\_isfj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_isfj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_isfj

mov ecx, SIZEOF type\_isfj

call writetofile

jmp exit\_game

result\_infj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_infj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_infj

mov ecx, SIZEOF type\_infj

call writetofile

jmp exit\_game

result\_intj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_intj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_intj

mov ecx, SIZEOF type\_intj

call writetofile

jmp exit\_game

result\_istp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_istp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_istp

mov ecx, SIZEOF type\_istp

call writetofile

jmp exit\_game

result\_isfp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_isfp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_isfp

mov ecx, SIZEOF type\_isfp

call writetofile

jmp exit\_game

result\_infp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_infp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_infp

mov ecx, SIZEOF type\_infp

call writetofile

jmp exit\_game

result\_intp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_intp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_intp

mov ecx, SIZEOF type\_intp

call writetofile

jmp exit\_game

result\_estp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_estp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_estp

mov ecx, SIZEOF type\_estp

call writetofile

jmp exit\_game

result\_esfp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_esfp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_esfp

mov ecx, SIZEOF type\_esfp

call writetofile

jmp exit\_game

result\_enfp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_enfp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_enfp

mov ecx, SIZEOF type\_enfp

call writetofile

jmp exit\_game

result\_entp:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_entp

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_entp

mov ecx, SIZEOF type\_entp

call writetofile

jmp exit\_game

result\_estj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_estj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_estj

mov ecx, SIZEOF type\_estj

call writetofile

jmp exit\_game

result\_esfj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_esfj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_esfj

mov ecx, SIZEOF type\_esfj

call writetofile

jmp exit\_game

result\_enfj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_enfj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_enfj

mov ecx, SIZEOF type\_enfj

call writetofile

jmp exit\_game

result\_entj:

mov edx, OFFSET result\_msg

call WriteString

call Crlf

mov edx, OFFSET type\_entj

call WriteString

mov eax, filehandle

mov edx, OFFSET type\_entj

mov ecx, SIZEOF type\_entj

call writetofile

jmp exit\_game

invalid\_input:

mov edx, OFFSET invalid\_msg

call WriteString

jmp exit\_game

exit\_game:

mov edx, OFFSET exit\_msg

call WriteString

call crlf

call crlf

exit

main ENDP

END main