



20F-0292_BCS 4D_COAL LAB QUIZ 2

[Document subtitle]



TASK:

```
INCLUDE Irvine32.inc
.data
msg byte "                      GRADING SYSTEM PROGRAM",0
string_1 byte "                *****",0
string_2 byte "You have been awarded ",0
msg1 byte "Enter your total marks: ",0
msg2 byte "A grade ",0
msg3 byte "B grade ",0
msg4 byte "C Grade ",0
msg5 byte "D Grade ",0
msg6 byte "F Grade ",0
msg7 byte "INVALID INPUT ",0
num dword ?
.code
main PROC
mov  eax,yellow+(black*16)
call SetTextColor
mov  edx,offset string_1
call writestring
call crlf
mov  edx,offset msg
call writestring
call crlf
mov  edx,offset string_1
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
call crlf
mov  edx,offset msg1
call writestring
call readdec
mov  num,eax
cmp  num,59
jng  f_grade
cmp  num,69
jng  d_grade
cmp  num,79
jng  c_grade
cmp  num,89
jng  b_grade
cmp  num,100
jng  a_grade
jmp  invalid
f_grade:
mov  edx,offset string_2
call writestring
mov  eax,red+(black*16)
call SetTextColor
mov  edx,offset msg6
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
```

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jmp done
d_grade:
mov edx,offset string_2
call writestring
mov  eax,lightred+(black*16)
call SetTextColor
mov edx,offset msg5
call writestring
mov  eax,white+(black*16)
call crlf
call SetTextColor
jmp done
c_grade:
mov edx,offset string_2
call writestring
mov  eax,magenta+(black*16)
call SetTextColor
mov edx,offset msg4
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
jmp done
b_grade:
mov edx,offset string_2
call writestring
mov  eax,green+(black*16)
call SetTextColor
mov edx,offset msg3
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
jmp done
a_grade:
mov edx,offset string_2
call writestring
mov  eax,green+(black*16)
call SetTextColor
mov edx,offset msg2
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
jmp done
invalid:
mov  eax,red+(black*16)
call SetTextColor
mov edx,offset msg7
call writestring
mov  eax,white+(black*16)
call SetTextColor
call crlf
jmp done
done:
call crlf
call waitmsg
exit
main endp

END main

```

OUTPUT:

```
Microsoft Visual Studio Debug Console

*****
GRADING SYSTEM PROGRAM
*****

Enter your total marks: 5
You have been awarded F Grade

Press any key to continue...
C:\Users\saadg\source\repos\Assembly_Project5\Debug\Assembly_Proje
To automatically close the console when debugging stops, enable To
le when debugging stops.
Press any key to close this window . . .
```

```
Microsoft Visual Studio Debug Console

*****
GRADING SYSTEM PROGRAM
*****

Enter your total marks: 60
You have been awarded D Grade

Press any key to continue...
C:\Users\saadg\source\repos\Assembly_Project5\Debug\Assem
To automatically close the console when debugging stops,
le when debugging stops.
Press any key to close this window . . .
```

Microsoft Visual Studio Debug Console

```
*****  
GRADING SYSTEM PROGRAM  
*****
```

Enter your total marks: 70

You have been awarded C Grade

Press any key to continue...

C:\Users\saadg\source\repos\Assembly_Project5\Debug\Assembly_P

To automatically close the console when debugging stops, enable

le when debugging stops.

Press any key to close this window . . .

Microsoft Visual Studio Debug Console

```
*****  
GRADING SYSTEM PROGRAM  
*****
```

Enter your total marks: 80

You have been awarded B grade

Press any key to continue...

C:\Users\saadg\source\repos\Assembly_Project5\Debug\Assembly_P

To automatically close the console when debugging stops, enable

le when debugging stops.

Press any key to close this window . . .

Microsoft Visual Studio Debug Console

```
*****  
GRADING SYSTEM PROGRAM  
*****
```

Enter your total marks: 90

You have been awarded A grade

Press any key to continue...

C:\Users\saadg\source\repos\Assembly_Project5\Debug\Assembly_Project5.ex

To automatically close the console when debugging stops, enable Tools->O

le when debugging stops.

Press any key to close this window . . .

Microsoft Visual Studio Debug Console

GRADING SYSTEM PROGRAM

Enter your total marks: 900

INVALID INPUT

Press any key to continue...

C:\Users\saadg\source\repos\Assembly_Project5\Debug\As

To automatically close the console when debugging stops,
le when debugging stops.

Press any key to close this window . . .

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