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669200

GRADES PROGRAM.

Question:

Develop a program that will take marks as input and award the appropriate grade based on USIU's grading system. Use all the necessary control statements

> The program should continue taking marks input from the user and display the appropriate grades, and terminate Only upon the user's command. (Hint: use loops).

Answer:

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```python
main.py
1  # Online Python compiler (interpreter) to run Python online.
2  # Write Python 3 code in this online editor and run it.
3
4  print("Key in your marks to know your grades. Press -1 to terminate the program")
5
6  #initialize the while loop
7  count=0
8  #since count is 0 this statement whill allmays be true
9  #hence an endless loop
10  while count>-1:
11      mark = int(input("Key in your mark: "))
12      match mark:
13          case mrk if 90<=mrk<=100:
14              print("Yor grade is A")
15          case mrk if 87<=mrk<=89:
16              print("Your grade is A-")
17          case mrk if 84<=mrk<=86:
18              print("Your grade is B+")
19          case mrk if 80<=mrk<=83:
20              print("Your grade is B")
21          case mrk if 77<=mrk<=89:
22              print("Your grade is B-")
23          case mrk if 74<=mrk<=76:
24              print("Your grade is C+")
25          case mrk if 70<=mrk<=73:
26              print("Your grade is C")
27          case mrk if 67<=mrk<=69:
28              print("Your grade is C-")
29          case mrk if 64<=mrk<=66:
30              print("Your grade is D+")
31          case mrk if 62<=mrk<=63:
32              print("Your grade is D")
33          case mrk if 60<=mrk<=61:
34              print("Your grade is D-")
35          case mrk if 0<=mrk<=59:
36              print("Your grade is F")
37          #Allows the user to end the loop only if they press -1
38          case -1:
39              print("You have pressed the exit command (-1). \nThe program has terminated.")
40              break
41          #Default. Error message that displays if user keys in values not -1 or 1 to 100
42          case _:
43              print("Kindly key in a value between 0 and 100")
44
45      count=count+1
46
47
48
```

*Answer:(*Program in Python)

```
Shell
Key in your marks to know your grades. Press -1 to terminate the program
Key in your mark: 99
Yor grade is A
Key in your mark: 80
Your grade is B
Key in your mark: 70
Your grade is C
Key in your mark: 60
Your grade is D-
Key in your mark: 50
Your grade is F
Key in your mark: -1
You have pressed the exit command (-1).
The program has terminated.
>
```

Answer: (Result- an endless loop terminated by -1)