

```
1 #Q1 SID-21107052
2 #python program for finding grade of student
3 marks=int(input("enter marks of student : "))
4 #using conditions to check in grade range of marks
5 if marks<=80:
6     if marks<=60:
7         if marks<=50:
8             if marks<=45:
9                 if marks<=25:
10                    print("grade is F")
11                else:
12                    print("grade is E")
13            else:
14                print("grade is D")
15        else:
16            print("grade is C")
17    else:
18        print("grade is B")
19 else:
20     print("grade is A")
```

input

enter marks of student : 63
grade is B

...Program finished with exit code 0
Press ENTER to exit console.

```
1 #Q2 SID-21107052
2 #python program for checking leap year
3 #asking user for input year
4 a=int(input("enter the year : "))
5 #condition for checking if leap year or not according to conditions given
6 if a%4==0:
7     if a%100==0:
8         if a%400==0:
9             print(a,"is leap year")
10        else:
11            print(a, " is not a leap year")
12    else:
13        print(a,"is a leap year")
14 else:
15     print(a,"is not a leap year")
16
```

input

enter the year : 2020
2020 is a leap year

...Program finished with exit code 0
Press ENTER to exit console.

```
1 #Q3 SID-21107052
2 #python program for creating mutiplication quiz
3 #import random library
4 import random
5
6 #defining a function to check answer
7 def main():
8     print(a,"*",b,"=")
9     ans=int(input("answer"))
10    if ans==(a*b):
11        print("Right")
12    else:
13        print("wrong")
14
15 #using loop to create random questions then checking using function
16 i=0
17 while i<=10:
18     a=random.randint(1,10)
19     b=random.randint(1,10)
20     main()
21     i=i+1
```

input

```
4 * 3 =
answer12
Right
6 * 6 =
answer36
Right
5 * 4 =
answer20
Right
1 * 8 =
answer6
wrong
5 * 5 =
answer34
wrong
6 * 8 =
answer48
Right
1 * 4 =
answer4
Right
4 * 1 =
answer4
Right
7 * 7 =
answer49
Right
4 * 8 =
answer32
Right
5 * 1 =
answer5
Right
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```

```
1 #Q4 SID-21107052
2 #python program for finding required candies
3 #giving initial value for creating loop
4 candies=0
5 #using loop to check all numbers till 200
6 while candies <= 200:
7     #using conditions given
8     if candies%5==2:
9         if candies%6==3:
10             if candies%7==2:
11                 #printing the required number of candies
12                 print("no. of candies is : " , candies)
13                 break
14             else:
15                 candies= candies + 1
16         else:
17             candies= candies + 1
18     else:
19         candies= candies + 1
20
```

input

no. of candies is : 177

...Program finished with exit code 0
Press ENTER to exit console.