



main.py

```
1 #Keshav Mathur_21107049_Mechanical
2 print("Q1")
3 a=int(input("Enter your marks: "))
4 if a >= 80:
5     print("Your grade is 'A'.")
6 elif a >= 60:
7     print("Your grade is 'B'.")
8 elif a >= 50:
9     print("Your grade is 'C'.")
10 elif a >= 45:
11     print("Your grade is 'D'.")
12 elif a >= 25:
13     print("Your grade is 'E'.")
14 else:
15     print("Your grade is 'F'.")
```



input

Q1

Enter your marks: 80

Your grade is 'A'.

...Program finished with exit code 0

Press ENTER to exit console.



main.py

```
1 #Keshav Mathur_21107049_Mechanical
2 print("Q2")
3 a=int(input("Enter the year: "))
4 if a%400 == 0:
5     print(a, "is a leap year.")
6 elif a%4 == 0:
7     print(a, "is a leap year.")
8 else:
9     print(a, "is not a leap year.")
```



input

Q2
Enter the year: 2004
2004 is a leap year.

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



Language Python 3



main.py

```
1 #Keshav Mathur_21107049_Mechanical
2 print("Q3")
3 import random
4
5 i=0
6 while i<10:
7     num1=random.randint(0,10)
8     num2=random.randint(0,10)
9
10    print("Solve {} * {}=".format(num1,num2))
11    ans=int(input("Enter the answer: "))
12    if ans==num1*num2:
13        print("Right!")
14    else:
15        print("Wrong!, the answer is" , num1*num2)
16    i+=1
```



input



Language Python 3



input

```
Q3
Solve 10 * 3=
Enter the answer: 30
Right!
Solve 6 * 3=
Enter the answer: 18
Right!
Solve 0 * 4=
Enter the answer: 0
Right!
Solve 2 * 7=
Enter the answer: 15
Wrong!, the answer is 14
Solve 2 * 0=
Enter the answer: 2
Wrong!, the answer is 0
Solve 4 * 4=
Enter the answer: 16
Right!
Solve 0 * 10=
Enter the answer: 0
Right!
Solve 5 * 2=
Enter the answer: 10
Right!
Solve 10 * 9=
Enter the answer: 90
Right!
Solve 3 * 4=
Enter the answer: 12
Right!
```

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



main.py

```
1 #Keshav Mathur_21107049_Mechanical
2 print("Q4")
3 for candies in range(200):
4     if candies % 5 == 2:
5         if candies % 6 == 3:
6             if candies % 7 == 2:
7                 print(candies, "candies are in the bowl!")
```



input

Q4
177 candies are in the bowl!

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