

1. Write a program, using a *for* loop, that will display 25 stars (\*) on screen.
2. Write a program, using a *for* loop, that will display the text "I must practise my programming skills" 100 times on screen.
3. Write a program using a *while* loop which will display the following on screen

```
10
 9
 8
 7
 6
 5
 4
 3
 2
 1
BLASTOFF!!!!
```

4. Write a program that uses a *for* loop to ask a user to enter in the daily temperatures for each day in a week. The program should calculate and display the average temperature for the week.
5. Write a program to calculate and display the amount of money in a bank account that was opened with a deposit of €20 fifteen years ago and has earned interest at 10% (compound interest) per annum. Your program should display the amount of money in the account at the end of each year for all of the 15 years. Your program should also display the total interest earned at the end of 15 years.

*Compound interest – interest calculated on the current value each year.*

6. An investment analyst has a sum of money to invest in one of the following two pension plans:

Plan A: Invest the sum of money at 10% simple interest

Plan B: Invest the sum of money at 5% compound interest

Write a program that will ask the user to input a sum of money and will calculate and display the balance of the account at the end of every year for a 30 year period. The program should show the value of investment in both plans at the end of *each* year.

*Simple interest – 10% of the value of the initial deposit is added each year.*

*Compound interest – 5% of the current value added each year.*