- 1. Write a program that accepts three sides of a triangle and check whether the triangle is valid or not. The triangle is valid if the sum of two sides is greater than the largest of the three sides.
- 2. Write a program to receive value of an angle in degrees and check whether sum of squares of sin and cosine of this angle is equal to 1.
- 3. Write a program that receives weight as input and prints out the boxer's weight class. In boxing the weight class of a boxer is decided as per the following table.

Boxer Class	Weight in pounds
Fly weight	<115
Bantam weight	115 -121
Featherweight	122-153
Middleweight	154-189
Heavyweight	>=190

4. Write a program that accepts month and date of birth as input and prints the corresponding zodiac sign based on the following table:

Sun sign	From - to
Capricorn	Dec 22 – jan19
Auarius	Jan 20 – feb 17
Pisces	Feb 18 – Mar 19
Aries	Mar 20 – Apr 19
Taurus	April 20 – May 20
Gemini	May 21 – Jun 20
Cancer	Jun 21 – Jul 22
Leo	Jul 23 – Aug 22
Virgo	Aug 23 – Sep 22
Libra	Sep 23 – Oct 22
Scorpio	Oct 23 – Nov 21
Sagittarius	Nov 22 – Dec 21

- 5. Write a program to read ten numbers and count number of positive, negative and zero.
- 6. Evaluate the following series. Use do –while, for and while loop.
 - i) 1+3+5+7....n
 - ii) 1+4+25+36....n
 - iii) $x+x^2/2!+x^3/3!+....+n$