No.	Program Title	Formula Used
1	Add two integers	sum = a + b
2	Subtract two integers	diff = a - b
3	Multiply two integers	product = a * b
4	Divide two integers	quotient = a / b
5	Remainder (modulus) of two numbers	rem = a % b
6	Area of rectangle	area = length * width
7	Area of square	area = side * side
8	Area of triangle	area = (base * height) / 2
9	Area of circle	area = π * r * r
10	Circumference of circle	circumference = 2 * π * r
11	Volume of sphere	volume = (4/3) * π * r^3
12	Surface area of sphere	area = 4 * π * r^2
13	Volume of cylinder	volume = π * r^2 * h
14	Surface area of cylinder	area = 2 * π * r * (r + h)
15	Convert Celsius to Fahrenheit	F = (C * 9/5) + 32
16	Convert Fahrenheit to Celsius	C = (F - 32) * 5/9
17	Convert kilometers to meters	m = km * 1000
18	Convert meters to centimeters	cm = m * 100
19	Convert meters to millimeters	mm = m * 1000
20	Convert days to weeks	weeks = days / 7
21	Find remaining days after converting to weeks	rem_days = days % 7
22	Convert hours to minutes	min = hr * 60
23	Convert hours to seconds	sec = hr * 3600
24	Convert seconds to hours	h = s / 3600
25	Convert remaining seconds to minutes	m = (s % 3600) / 60
26	Find remaining seconds after converting to h:m	s = s % 60
27	Convert rupees to paise	paise = rupee * 100
28	Simple Interest	SI = (P * R * T) / 100
29	Compound Interest	CI = P * (1 + R/100)^T - P
30	EMI Calculator	EMI = [P * R * (1+R)^N] / [(1+R)^N – 1]
31	Average of 3 numbers	avg = (a + b + c) / 3

32	Perimeter of rectangle	peri = 2 * (l + w)
33	Perimeter of square	peri = 4 * side
34	Perimeter of triangle	peri = a + b + c
35	Calculate total marks of 5 subjects	total = s1 + s2 + s3 + s4 + s5
36	Calculate percentage of 5 subjects	perc = total / 5
37	Convert inches to centimeters	cm = inch * 2.54
38	Convert feet to inches	inch = feet * 12
39	Convert centimeters to meters	m = cm / 100
40	Convert rupees to dollar	usd = inr / rate
41	Calculate GST amount on total	gst_amount = total_amount * rate / 100
42	Calculate final amount after GST	final_amount = total_amount + gst_amount
43	Calculate discount amount on price	discount_amount = price * disc_rate / 100
44	Calculate final price after discount	final_price = price - discount_amount
45	Calculate tax amount on salary	tax_amount = salary * tax_rate / 100
46	Calculate net salary after tax	net_salary = salary - tax_amount
47	Convert speed from km/hr to m/s	mps = (kmph * 1000) / 3600
48	Convert speed from m/s to km/hr	kmph = (mps * 3600) / 1000
49	Convert liters to milliliters	ml = liters * 1000
50	Power of a number (a^b) using math.h	pow(a, b)
51	Display ASCII value of a character	ASCII = (int)ch
52	Calculate BMI	BMI = weight / (height * height)
53	Currency converter (e.g., general conversion)	converted_amount = amount * rate
54	Electricity bill (fixed unit * rate)	bill = units * rate
55	Convert years into months	months = y * 12
56	Convert years into days	days = y * 365
57	Convert bytes to KB	KB = B / 1024
58	Convert KB to MB	MB = KB / 1024
59	Find the square of a number	sq = n * n
60	Find the cube of a number	cube = n * n * n
61	Find square root of given number using math.h	sqrt()
62	Total bill with 18% GST (direct calculation)	total = amount * 1.18
63	Convert minutes to hours	hours = min / 60

64	Convert remaining minutes from total minutes	rem_min = min % 60
65	Convert months to total days (assuming 30 days/month)	total_days = months * 30
66	Convert months and additional days to total days	total_days = months * 30 + days
67	Calculate total cost of items (quantity and rate)	total_cost = qty * rate
68	Calculate total salary (basic + HRA + DA)	salary = basic + HRA + DA
69	Calculate travel time using distance and speed	time = distance / speed
70	Convert a number to 5-digit padded output (e.g., 12 to 00012)	Use %05d in printf()
71	Combine two single digit numbers to make a new number	combined = a * 10 + b
72	Extract tens digit of a 2-digit number	tens = n / 10
73	Extract units digit of a 2-digit number	units = n % 10
74	Convert decimal hours to integer hours	h = (int)x
75	Convert decimal part of hours to minutes	m = (x - h) * 60
76	Add two times (hours)	total_hr = hr1 + hr2
77	Add two times (minutes) and adjust hours	total_min = min1 + min2; if(total_min >= 60) {total_hr++; total_min -= 60;}
78	Calculate cube root using math.h	cbrt(x)
79	Convert angle from degrees to radians	rad = deg * π / 180
80	Convert angle from radians to degrees	deg = rad * 180 / π
81	Calculate total marks with first subject 30% weightage	total = (x * 0.3)
82	Calculate total marks with second subject 70% weightage	total = (y * 0.7)
83	Calculate perimeter of semi-circle (arc length)	arc_length = π * r
84	Calculate perimeter of semi-circle (including diameter)	perimeter = π * r + 2 * r
85	Divide a number into two equal parts	half = num / 2
86	Find speed in km/h given distance in meters and time in seconds	kmph = (distance_m / 1000.0) / (time_sec / 3600.0)
87	Print integer with '+' sign using format specifier	Use printf("%+d", num);
88	Use sizeof() to display memory of int	sizeof(int)
89	Use sizeof() to display memory of float	sizeof(float)
90	Use sizeof() to display memory of char	sizeof(char)
91	Calculate distance = speed × time	distance = speed * time
92	Convert days to years	years = days / 365
93	Convert remaining days (from years) to months	months = (days % 365) / 30
94	Find final remaining days	rem_days = (days % 365) % 30
95	Accept 3 subject marks and find total	total_marks = s1 + s2 + s3

96	Read a string using %s and print it	scanf("%s", str); printf("%s", str);
97	Read a character and print its ASCII value	scanf("%c", &ch); printf("%d", (int)ch);
98	Concatenate two characters (simple display)	Manual example: printf("%c%c", ch1, ch2);
99	Accept date as dd mm yyyy and display it	Basic input formatting with scanf and printf
100	Calculate average speed from total distance and total time	avg_speed = total_distance / total_time