Output 1

PS C:\Users\Asus\Desktop\Samir Adhikari> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 01\_factorial.cpp -o 01\_factorial } ; if ($?) { .\01\_factorial }

Enter number: 5

Factorial: 120

Output 2

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 02\_prime.cpp -o 02\_prime } ; if ($?) { .\02\_prime }

Enter number: 6

6 is not prime

Output 3

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 03\_gcd.cpp -o 03\_gcd } ; if ($?) { .\03\_gcd }

Enter two numbers: 10 5

GCD: 5

Output 4

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 04\_reverse\_string.cpp -o 04\_reverse\_string } ; if ($?) { .\04\_reverse\_string }

Enter string: samir

Reversed: rimas

Output 5

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 05\_palindrome.cpp -o 05\_palindrome } ; if ($?) { .\05\_palindrome }

Enter string: pop

pop is palindrome

Output 6

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 06\_fibonacci.cpp -o 06\_fibonacci } ; if ($?) { .\06\_fibonacci }

Enter number of terms: 5

Fibonacci: 0 1 1 2 3

Output 7

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 07\_largest\_element.cpp -o 07\_largest\_element } ; if ($?) { .\07\_largest\_element }

Enter array size: 5

Enter elements: 1 2 3 4 6

Largest: 6

Output 8

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 08\_swap\_reference.cpp -o 08\_swap\_reference } ; if ($?) { .\08\_swap\_reference }

Enter two numbers: 6 8

Before swap: x=6, y=8

After swap: x=8, y=6

Output 9

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 09\_selection\_sort.cpp -o 09\_selection\_sort } ; if ($?) { .\09\_selection\_sort }

Enter array size: 5

Enter elements: 6 34 56 67 98

Sorted array: 6 34 56 67 98

Output 10

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 10\_vowel\_consonant.cpp -o 10\_vowel\_consonant } ; if ($?) { .\10\_vowel\_consonant }

Enter string: samir

Vowels: 2, Consonants: 3

Output 11

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 11\_celsius\_fahrenheit.cpp -o 11\_celsius\_fahrenheit } ; if ($?) { .\11\_celsius\_fahrenheit }

Enter temperature in Celsius: 100

Fahrenheit: 212

Output 12

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 12\_digit\_sum.cpp -o 12\_digit\_sum } ; if ($?) { .\12\_digit\_sum }

Enter number: 1212

Sum of digits: 6

Output 13

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 13\_armstrong.cpp -o 13\_armstrong } ; if ($?) { .\13\_armstrong }

Enter number: 121

121 is not Armstrong

Output 14

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 14\_array\_average.cpp -o 14\_array\_average } ; if ($?) { .\14\_array\_average }

Enter array size: 5

Enter elements: 1 2 3 4 5

Average: 3

Output 15

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 15\_second\_largest.cpp -o 15\_second\_largest } ; if ($?) { .\15\_second\_largest }

Enter array size: 5

Enter elements: 2 6 8 4 10

Second largest: 8

Output 16

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 16\_book\_structure.cpp -o 16\_book\_structure } ; if ($?) { .\16\_book\_structure }

Enter book title: physics

Enter author: naturre

Enter price: 0

Book Details:

Title: physics

Author: naturre

Price: $0

Output 17

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 17\_student\_structure.cpp -o 17\_student\_structure } ; if ($?) { .\17\_student\_structure }

Enter name: samir

Enter roll number: 6

Enter marks: 100

Student Details:

Name: samir

Roll: 6

Marks: 100

Output 18

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 18\_point\_distance.cpp -o 18\_point\_distance } ; if ($?) { .\18\_point\_distance }

Enter first point (x y): 4 6

Enter second point (x y): 6 8

Distance: 2.82843

Output 19

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 19\_highest\_salary.cpp -o 19\_highest\_salary } ; if ($?) { .\19\_highest\_salary }

Employee 1:

Enter name: shreekrishna

Enter age: 19

Enter salary: 100

Employee 2:

Enter name: rohan

Enter age: 20

Enter salary: 100

Employee 3:

Enter name: roj

Enter age: 24

Enter salary: 10

Highest paid employee:

Name: shreekrishna

Salary: $100

Output 20

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 20\_compare\_dates.cpp -o 20\_compare\_dates } ; if ($?) { .\20\_compare\_dates }

Enter first date (dd mm yyyy): 12 01 2063

Enter second date (dd mm yyyy): 28 03 2069

Later date: 28/3/2069

Output 26

PS C:\Users\Asus\Desktop\Samir Adhikari> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 26\_nested\_student.cpp -o 26\_nested\_student } ; if ($?) { .\26\_nested\_student }

Enter name: samir

Enter roll number: 6

Enter date of birth (dd mm yyyy): 12 01 2063

Student Details:

Name: samir

Roll: 6

DOB: 12/1/2063

Output 27

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 27\_rectangle.cpp -o 27\_rectangle } ; if ($?) { .\27\_rectangle }

Enter length: 10

Enter width: 10

Area: 100

Perimeter: 40

Output 28

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 28\_bank\_account.cpp -o 28\_bank\_account } ; if ($?) { .\28\_bank\_account }

Enter name: samir

Enter account number: 1234

Enter initial balance: 0

1. Deposit 2. Withdraw 3. Balance 4. Exit: 1

Enter amount: 1000000

Deposited: $1000000

1. Deposit 2. Withdraw 3. Balance 4. Exit: 4

Output 29

1. Deposit 2. Withdraw 3. Balance 4. Exit: 4

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 29\_product\_sale.cpp -o 29\_product\_sale } ; if ($?) { .\29\_product\_sale }

Enter product ID: 123

Enter product name: mobile

Enter quantity: 100

Enter quantity sold: 10

Sale successful! Remaining: 90

Updated Info:

ID: 123

Name: mobile

Quantity: 90

Output 30

PS C:\Users\Asus\Desktop\Samir Adhikari\lab2> cd "c:\Users\Asus\Desktop\Samir Adhikari\lab2\" ; if ($?) { g++ 30\_employee\_address.cpp -o 30\_employee\_address } ; if ($?) { .\30\_employee\_address }

Enter name: samir

Enter age: 19

Enter salary: 100000

Enter street: nearr

Enter city: ktm

Enter state: bagmati

Enter zip: 123

Employee Details:

Name: samir

Age: 19

Salary: $100000

Address: nearr, ktm, bagmati 123

Output 34

PS C:\Users\Asus\Desktop\CPP\lab1> cd "c:\Users\Asus\Desktop\CPP\lab1\" ; if ($?) { g++ 34\_rectangle\_area\_perimeter.cpp -o 34\_rectangle\_area\_perimeter } ; if ($?) { .\34\_rectangle\_area\_perimeter }

Samir Adhikari

Enter length of rectangle: 10

Enter width of rectangle: 10

Area of rectangle = 100 square units

Perimeter of rectangle = 40 units

Output 35

PS C:\Users\Asus\Desktop\CPP\lab1> cd "c:\Users\Asus\Desktop\CPP\lab1\" ; if ($?) { g++ 35\_simple\_interest.cpp -o 35\_simple\_interest } ; if ($?) { .\35\_simple\_interest }

Samir Adhikari

Enter principal amount: 1000

Enter rate of interest (per annum): 12

Enter time period (in years): 5

Simple Interest = 600

Total Amount = 1600

PS C:\Users\Asus\Desktop\CPP\lab1> cd "c:\Users\Asus\Desktop\CPP\lab1\" ; if ($?) { g++ 36\_matrix\_operations.cpp -o 36\_matrix\_operations } ; if ($?) { .\36\_matrix\_operations }

Samir Adhikari

Matrix Operations (2x2 Matrices):

1. Addition

2. Subtraction

3. Multiplication

4. Exit

> 1

Enter elements of first 2x2 matrix:

[0][0]: 1

[0][1]: 2

[1][0]: 3

[1][1]: 4

Enter elements of second 2x2 matrix:

[0][0]: 5

[0][1]: 6

[1][0]: 7

[1][1]: 8

Result of Addition:

6 8

10 12

Matrix Operations (2x2 Matrices):

1. Addition

2. Subtraction

3. Multiplication

4. Exit

> 4

Bye see u