```
SUPRAJA MATHAPATI
DATE: 22/3/24 Time: 5:30PM
Roll no: 240350320055
Email id: suprajamathapati2001@gmail.com
Q1:write a c++ program to print hello world
Source code:
#include <iostream>
int main() {
  std::cout << "Welcome" << std::endl;
  return 0;
}
Output:
PS C:\Users\Hp\Desktop\c++ assig-1> cd "c:\Users\Hp\Desktop\c++ assig-1\"; if ($?) { g++ first.cpp -o
first }; if ($?) { .\first }
Hello, World!
PS C:\Users\Hp\Desktop\c++ assig-1> cd "c:\Users\Hp\Desktop\c++ assig-1\"; if ($?) { g++ first.cpp -o
first }; if ($?) { .\first }
Hello, World!
```

# Q2:

#### SOURCE CODE:

```
include <iostream>
int main() {
    // Declare variables to store the numbers
    int num1, num2;

    // Prompt the user to enter the first number
    std::cout << "Enter the first number: ";
    std::cin >> num1;

    // Prompt the user to enter the second number
    std::cout << "Enter the second number: ";
    std::cin >> num2;

    // Calculate the sum
    int sum = num1 + num2;
```

```
// Display the result
   std::cout << "The sum of " << num1 << " and " << num2 << " is: " << sum <<
std::endl;
   return 0;
}</pre>
```

#### **Output**

PS C:\Users\Hp\Desktop\c++ assig-1> cd "c:\Users\Hp\Desktop\c++ assig-1\"; if (\$?) { g++ second.cpp -o second }; if (\$?) { .\second }

Enter the first number: 6

Enter the second number: 88 The sum of 6 and 88 is: 94

## Q3 SOURCE CODE:

```
#include <iostream>
using namespace std;
int main() {
    double length, width;

    cout << "Enter the length of the rectangle:";
    cin >> length;

    cout << "Enter the width of the rectangle:";
    cin >> width;

    double area = length * width;

    double perimeter = 2 * (length + width);

    cout << "Area of the rectangle:" << area << endl;
    cout << "perimeter of the rectangle:" << perimeter << endl;
    return 0;</pre>
```

```
OUTPUT:
```

PS C:\Users\Hp\Desktop\c++ assig-1> cd "c:\Users\Hp\Desktop\c++ assig-1\" ; if (\$?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if (\$?) { .\tempCodeRunnerFile } Enter the length of the rectangle:88 Enter the width of the rectangle:75 Area of the rectangle:6600 perimeter of the rectangle:326

# Q4 SOURCE CODE:

```
#include <iostream>
using namespace std;
int main(){
   int number;

   cout <<"enter a number:";
   cin >>number;

   number += 40;

   number /= 5;

   number *= 2;

   number *= 10;

   cout << "result:" << number << endl;

   return 0;
}</pre>
```

#### OUTPUT:

Enter a number: 50 Result: 0



SOURCE CODE:#include <iostream>

```
int main()
  double celsius, kelvin, fahrenheit;

// Ask for temperature in Celsius
  cout << "Enter temperature in Celsius: ";
  cin >> celsius;

// Convert Celsius to Kelvin
  kelvin = celsius + 273.15;

// Convert Celsius to Fahrenheit
  fahrenheit = (celsius * 9.0 / 5.0) + 32;

// Display the results
  cout << "Temperature in Celsius: " << celsius << "°C" << endl;
  cout << "Temperature in Kelvin: " << kelvin << "K" << endl;
  cout << "Temperature in Fahrenheit: " << fahrenheit << "°F" << endl;
  return 0;
}</pre>
```

### OUTPUT:

Enter temperature in Celsius: 25
Temperature in Celsius: 25°C
Temperature in Kelvin: 298.15K
Temperature in Fahrenheit: 77°F

## Q6:

## SOURCE CODE:

```
#include <iostream>
int main() {
   double meters;
   const double metersToFeet = 3.28084;
   const double feetToInches = 12.0;
```

```
std::cout << "Enter length in meters: ";</pre>
   std::cin >> meters;
   double feet = meters * metersToFeet;
   int wholeFeet = static cast<int>(feet);
   double remainingFeet = feet - wholeFeet;
   double inches = remainingFeet * feetToInches;
   std::cout << "Length in feet and inches: " << wholeFeet << " feet " <<</pre>
inches << " inches" << std::endl;</pre>
 OUTPUT:
PS C:\Users\Hp\Desktop\c++ assig-1>
'c:\Users\Hp\Desktop\c++ assig-1\" ; if ($?) { g++
.\tempCodeRunnerFile
Enter length in meters: 86
Length in feet and inches: 282 feet 1.82688 inches
SOURCE CODE
#include <iostream>
int main() {
   std::cout << "Welcome" << std::endl;</pre>
   return 0;
}
Output:
PS C:\Users\Hp\Desktop\c++ assig-1\.vscode> cd "c:\Users\Hp\Desktop\c++
assig-1\.vscode\"; if ($?) { g++ seven.cpp -o seven }; if ($?) { .\seven }
Welcome
```

```
Q8:
SOURCE CODE:
#include <iostream>
int main() {
  // Declare and initialize two numbers
   int a = 5;
 int b = 10;
  // Output the original values
   std::cout << "Before swapping:" << std::endl;</pre>
 std::cout << "a = " << a << ", b = " << b << std::endl;
  // Swap the values of a and b
   int temp = a;
   a = b;
 b = temp;
 // Output the swapped values
  std::cout << "After swapping:" << std::endl;</pre>
 std::cout << "a = " << a << ", b = " << b << std::endl;
return 0;
OUTPUT:
PS C:\Users\Hp\Desktop\c++ assig-1\.vscode> cd "c:\Users\Hp\Desktop\c++
assig-1\.vscode\" ; if ($?) { g++ EIGHT.CPP -o EIGHT } ; if ($?) { .\EIGHT }
Before swapping:
a = 5, b = 10
After swapping:
a = 10, b = 5
```

PS C:\Users\Hp\Desktop\c++ assig-1\.vscode>