Lab 2

Task 1: Run the following code

// Program to run

// Nothing will be print

#include <iostream>

using namespace std;

int main()

{

return 0;

}

Task 2: Print the hello world by running the following code

// Display Hello world

#include <iostream>

using namespace std;

int main()

{

cout<<" Hello world";

return 0;

}

1. Print the following
   1. Enter your name
   2. Enter your registration number
   3. Enter your CGPA
   4. Enter your pin
   5. Enter your password
   6. Dear customer the service will be not available today. Sorry for inconvenience created
   7. “Happy to help!” ...
   8. “Great question! ...
   9. “Nice to meet you!” ...
   10. “May I ask why that is?” ...
   11. “Thanks for bringing this to our attention!” ...
   12. “I completely understand why you'd want that.”

Task 3: Initialize a variable by running the following code

// Initialize a variable

// print it

#include <iostream>

using namespace std;

int main()

{

int a=10;

cout<<a;

return 0;

}

1. Change 10 by another integer and observe the result
2. Change it to friction number and observe the result
3. Replace int by float and now enter the friction and observe the result
4. With float enter integer and observe the result

Task 4: Prompt to user and use of cin. Run the following code

//give prompt to user for entering age

// Define a variable

// use cin to enter

#include <iostream>

using namespace std;

int main()

{

int a;

cout<<" Dear user kindly enter your age: ";

cin>>a;

return 0;

}

1. Run the program 3 time and observe the result
2. Write cout after cin like cout<<a; and observe the result.
3. Run the program 3 times and observe the result

Task 5: Sequential: Print your name 10 times. Run the following code by only modify your name.

//Sequential

//print your name 10 times

#include <iostream>

using namespace std;

int main()

{

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

cout<<" Usama Siraj "<<endl;

return 0;}

1. Print Pakistan 5 times
2. Print C++ 7 times
3. Print the first 5 number
4. Print X, Y and Z

Task 6: Conditional: Enter number either positive or negative integer and print whether it is +ve or

-ve

#include <iostream>

using namespace std;

int main()

{

int number;

cout << "Enter an integer: ";

cin >> number;

if (number >= 0)

{

cout << "You entered a positive integer: " << number << endl;

}

else

{

cout << "You entered a negative integer: " << number << endl;

}

return 0;

}

Task 7: Loops or repetitive structure: By running the following code

#include <iostream>

using namespace std;

int main()

{

for (int i = 0; i < 2; i++)

{

cout << “Usma Siraj “<< “\n”;

}

return 0;

}

1. Change 0 by 1 and note the output
2. Change 2 by 5 and note the output
3. Change 2 by 100 and note the output
4. Change “Usama Siraj” by i and not the out put
5. Change i by i+1 and not the output

Task 8: While Loop: Run the following code

#include <iostream>

using namespace std;

int main()

{

int i = 0;

while (i < 5)

{

cout << "Usama Siraj" << "\n";

i++;

}

return 0;

}

1. Change 0 by 1 and note the output
2. Change 2 by 5 and note the output
3. Change 2 by 100 and note the output
4. Change “Usama Siraj” by i and not the out put
5. Change i by i+1 and not the output

Task 9: Function, Run the following code

// C++ Program to Add Two Numbers Using Functions

#include <iostream>

using namespace std;

int addTwo(int x, int y);

int main(){

int a, b, sum;

// Asking for input

cout << "Enter the first number: ";

cin >> a;

cout << "Enter the second number: ";

cin >> b;

// Calling out user-defined function

sum = addTwo(a, b);

// Displaying output

cout << "Sum of " << a << " and " << b << " is: " << sum << endl;

return 0;

}

int addTwo(int x, int y)

{

return (x + y);

}

**Run the following 3 time each**

1. Change + by – in return (x + y);
2. Change + by \* in return (x + y);
3. Change + by / in return (x + y);
4. Change + by – in return (x + y); and also in addTwo(int x, int y)by subTwo (int x, int y)
5. Change + by \* in return (x + y); and also in MulTwo(int x, int y)by MulTwo (int x, int y)