**North South University - Spring 2023**

Course: CSE225L Assessment: Lab 1 / HW 1 / PS 1

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// Task-1 Codes

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| #include <iostream>  using namespace std;  float getPerimeter(int &l, int &w){  return 2 \* (l + w);  } |
| int main(){  int length, width;  cout << "Enter length: ";  cin >> length;  cout << "Enter width: ";  cin >> width;  cout << "Perimeter: " << getPerimeter(length, width) << " sq-unit" << endl;  return 0;  } |
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// Task-2 Codes

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| #include <iostream>  using namespace std;  int main(){  int n;  cout << "Enter number of Employee: ";  cin >> n;  double\* hours = new double[n];  double\* rates = new double[n];  for(int i = 0; i < n; i++){  cout << "For " << (i+1) << "th employee: " << endl;  cout << "Enter total hours: ";  cin >> hours[i];  cout << "Enter Hourly Rates($): ";  cin >> rates[i];  }  cout << endl << endl;  for(int i = 0; i < n; i++){  cout << "For " << (i+1) << "th employee: " << endl;  cout << "Over Time Amount: ";  if(hours[i]\*rates[i] > 110){  cout << ((hours[i]\*rates[i] - 110) / 8.0) << " Hours" << endl;  }  else{  cout << "0 hours" << endl;  }  cout << "Bonus Amount:";  if(hours[i]\*rates[i] > 110){  cout << ((hours[i]\*rates[i]) - 110.0) << "$" << endl;  }  else{  cout << "0 $" << endl;  }  }  } |
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// Task-3 Codes

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| #include <iostream>  using namespace std;  class Researcher{  private:  int papers;  int experience;  public:  Researcher(int, int);  bool isEligible();  void printInfo();  int getExperience();  Researcher compareWith(Researcher);  }; |
| Researcher::Researcher(int p, int e){  papers = p;  experience = e;  }  bool Researcher::isEligible(){  if(papers >= 2)  return true;  else  return false;  }  void Researcher::printInfo(){  cout << "No of Papers: " << papers << ", year of experience: " << experience << endl;  }  int Researcher::getExperience(){  return experience;  } |
| Researcher::Researcher(int p, int e){  papers = p;  experience = e;  }  bool Researcher::isEligible(){  if(papers >= 2)  return true;  else  return false;  }  void Researcher::printInfo(){  cout << "No of Papers: " << papers << ", year of experience: " << experience << endl;  }  int Researcher::getExperience(){  return experience;  } |
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| Researcher  -papers:int  -experience:int  +Researcher()  +isEligible(): bool  +printInfo:void  +getExperiment:int |

// Task-4 Codes

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// Task-5 Codes

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