Paulina Flores

COP 2800C

Dr. Macon

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Poly Assignment Extension

**import** java.util.Scanner;

**public** **class** Polymorphism {

**public** **static** **void** main(String[] args) {

Person[] arr;

arr = **new** Person[100]; //array

//Hank

Name hankName = **new** Name("Hank", "H.", "Aaron");

arr[0] = **new** BaseballPlayer(hankName, 32, "Magallanes", "Second Baseman", "Both Hands");

//Terry

Name terryName = **new** Name("Terry","F.", "Bradshaw");

arr[1] = **new** FootballPlayer(terryName, 22, "Florida Gators", "Fullback", "Offense");

//Mario

Name marioName = **new** Name("Mario", "Lemieux");

arr[2] = **new** HockeyPlayer(marioName, 23, "Florida Panthers", "Goaltender", "Goalie");

//Paula

Name paulaName = **new** Name("Paula","X.", "Creamer");

arr[3] = **new** Golfer(paulaName, 27, "Team Red", "P1", "BMW");

//Brian

Name brianName = **new** Name("Brian","T.", "Rowe");

arr[4] = **new** SoccerPlayer(brianName, 28, "A.C. Milan",

"8 (Central/Box-to-Box Midfielder)", "Mid Fielder");

//Barry

Name barryName = **new** Name ("Barry", "B.", "Bonds");

arr[5] = **new** BaseballPlayer(barryName, 28, "A.C. Milan",

"8 (Central/Box-to-Box Midfielder)", "Left Handed");

//Payton

Name paytonName = **new** Name("Payton", "A.", "Manning");

arr[6] = **new** FootballPlayer(paytonName, 28, "UCF Knights", "Fullback", "Defense");

//Phil

Name philName = **new** Name("Phil", "A.", "Mickleson");

arr[7] = **new** Golfer(philName, 51, "Team Grey", "P8","Walmart");

//Wayne

Name wayneName = **new** Name("Wayne", "Gretzky");

arr[8] = **new** HockeyPlayer(wayneName, 24, "New Jersey Devils", "Goaltender", "Goalie");

//Dom

Name domName = **new** Name ("Dom", "A.", "Dwyer");

arr[9] = **new** SoccerPlayer(domName, 25, "A.C. Milan",

"5 Center Back (or Sweeper, if used)", "Defender");

//Kate

Name kateName = **new** Name ("Kate", "E.", "Kane");

arr[10] = **new** SoccerPlayer(kateName, 21, "Team U.S.A.",

"5 Center Back (or Sweeper, if used)", "Defender");

//Maria

Name mariaName = **new** Name("Maria", "Lovelace");

arr[11] = **new** Golfer(mariaName, 26, "Team Yello", "P4","Under Armour");

//Axel

Name axelName = **new** Name("Axel", "Grayson");

arr[12] = **new** HockeyPlayer(axelName, 23, "Toronto Maple Leafs", "Forwards", "Skater");

//Jake

Name jakeName = **new** Name("Jake", "S.", "Peters");

arr[13] = **new** FootballPlayer(jakeName, 28, "UCF Knights", "Fullback", "Defense");

//Roy

Name royName = **new** Name("Roy", "H.", "Mason");

arr[14] = **new** BaseballPlayer(royName, 32, "New York Yankees", "Second Baseman", "Both Hands");

//Lillian

Name lillianName = **new** Name("Lillian", "Zachariah");

arr[15] = **new** Golfer(lillianName, 26, "Team Blue", "P3","Bridgestone");

//Paulina

Name paulinaName = **new** Name ("Paulina", "E.", "Colasante");

arr[16] = **new** SoccerPlayer(paulinaName, 21, "Team Italy",

"5 Center Back (or Sweeper)", "Defender");

//Gabriele

Name gabrieleName = **new** Name ("Gabriele", "E.", "Colasante");

arr[17] = **new** BaseballPlayer(gabrieleName, 28, "Magallanes",

"8 (Central/Box-to-Box Midfielder)", "Left Handed");

//William

Name williamName = **new** Name("William", "Boada");

arr[18] = **new** HockeyPlayer(williamName, 23, "Boston Bruins", "Centerman", "Skater");

**int** choice ;

Scanner input = **new** Scanner (System.***in***);

**do** {

System.***out***.println(" ");

System.***out***.println("--------------------");

System.***out***.println("Menu");

System.***out***.println("--------------------");

System.***out***.println("1.) Call Activity of each Person");

System.***out***.println("2.) Call Quick Fact of each Person");

System.***out***.println("3.) Call Biography of each Person");

System.***out***.println("4.) Cancel");

System.***out***.println("Enter Your Choice:");

choice = input.nextInt();

}**while** (choice > 5);

**switch**(choice) {

**case** 1:

**for**(**int** i = 0; i < 16;i++ ) {

*callThisMethods*((Athlete) arr[i]);

}

**break**;

**case** 2:

**for**(**int** i = 0; i < 16;i++ ) {

*callQuickFact*((Athlete) arr[i]);

}

**break**;

**case** 3:

**for**(**int** i = 0; i < 16;i++ ) {

*printOutString*((Athlete) arr[i]);

}

**break**;

**case** 4:

System.***out***.println("Exiting Program...");

System.*exit*(0);

**break**;

**default** :

System.***out***.println("This is not a valid Menu option! Please Select Another");

**break**;

}

}

**public** **static** **void** printOutString(Athlete obj) {

System.***out***.println(obj);

}

**public** **static** **void** callThisMethods(Athlete arr) {

arr.doThis();

}

**public** **static** **void** callQuickFact(Athlete obj) {

obj.quickFact();

}

}