

ASSIGNMENT - 1

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1) create a java program to print your mother and father name, age, salary, phonenumber, address like city state country.

```
import java.util.Scanner;

public class MyDetails
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        String motherName,fatherName,address;

        int age;

        double salary;

        long phoneNumber;


        System.out.print("mother name : ");

        motherName = sc.next();

        System.out.print("father name : ");

        fatherName = sc.next();

        System.out.print("age : ");

        age = sc.nextInt();

        System.out.print("salary : ");

        salary = sc.nextDouble();

        System.out.print("phone number : ");
```

```
        phoneNumber = sc.nextLong();

        System.out.print("address : ");

        address = sc.next();


        System.out.println();

        System.out.println("mother name : "+motherName);

        System.out.println("father name : "+fatherName);

        System.out.println("age : "+age);

        System.out.println("salary : "+salary);

        System.out.println("phone number : "+phoneNumber);

        System.out.println("address : "+address);

    }

}
```

OUTPUT

mother name : Indira

father name : Dinakaran

age : 23

salary : 25000

phone number : 8610427831

address : Tamilnadu,Chennai

mother name : Indira

father name : Dinakaran

age : 23

salary : 25000.0

phone number : 8610427831

address : Tamilnadu,Chennai

2) Write a java program to print the below msg in the given format

hello

welcome to

edubridge online classes

public class SampleFormat

{

public static void main(String[] args)

{

System.**out**.print("\t \t \t \t \t hello\n"+" \t \t welcome\tto\n"+"tedubridge\t online\t
classes");

}

}

OUTPUT

hello

welcome to

edubridge online classes

3) What is default package in java?

Java. lang package is a default package in Java therefore, there is no need to import it explicitly.

4) Scanner class is in which package?

Scanner is a class in java. util package.

5) list the methods of Scanner class.

Method	Description
nextInt()	reads an int value from the user
nextFloat()	reads a float value form the user
nextBoolean()	reads a boolean value from the user
nextLine()	reads a line of text from the user
next()	reads a word from the user
nextByte()	reads a byte value from the user
nextDouble()	reads a double value from the user
nextShort()	reads a short value from the user
nextLong()	reads a long value from the user

6) list the types of datatypes with size and give an example of each by doing declaring and initializing the variables.

Data Type	Default Value	Default size
byte	0	1 byte
short	0	2 bytes
int	0	4 bytes
long	0L	8 bytes
float	0.0f	4 bytes
double	0.0d	8 bytes
boolean	false	1 bit
char	'\u0000'	2 bytes

EXAMPLES

byte a = 126;

```
short score =100;

int student_id = 10;

long phone_Number = 8610427831L;

float pi =3.14f;

double salary = 25000.50;

boolean won = true;

char initial = 'D';
```

7) Write a program to display the names of your 5 friends.

```
public class FiveFriends
{
    public static void main(String[] args)
    {
        System.out.print(" 1.Deepak \n 2.Vicky \n 3.Anu \n 4.Vimmi \n 5.Natasha");
    }
}
```

8) Write a program to do addition 5 number

```
import java.util.Scanner;

public class AddFiveNumbers
{
    public static void main(String[] args)
    {
        int a,b,c,d,e,add;

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter first number:");

        a=sc.nextInt();
```

```

        System.out.println("Enter second number:");
        b=sc.nextInt();
        System.out.println("Enter third number:");
        c=sc.nextInt();
        System.out.println("Enter fourth number:");
        d=sc.nextInt();
        System.out.println("Enter fifth number:");
        e=sc.nextInt();
        add = a+b+c+d+e;
        System.out.println("The sum is: " + add);
    }
}

```

9) Write a program to display your father and mother name.

```

public class MyWorld
{
    public static void main(String[] args)
    {
        System.out.println("My father name is: Dinakaran");
        System.out.println("My mother name is: Indira");
    }
}

```

10) write a program to display your name in short like
yourname.fathernamfirstletter.sirnamefirstletter

```

public class MyName
{

```

```

    public static void main(String[] args)
    {
        String name="Hemavarshini";
        String fathername="Dinakaran";
        String surname="Mudaliyar";

        System.out.println(name+"."+fathername.charAt(0)+"."+surname.charAt(0));
    }
}

```

11) Explain the public static void main(String[] args) in detail.

Public:- it is an universal access specifier

Static:- access modifier, JVM can't create any object automatically so we need to use main method as static.

Void:- return type---main method doesn't return the value to the jvm

main():- is the name of the method/entry point of java program

String[] args --CommandLine argumenet - String is predefined class

command line argument --while running java program we can pass the values

12) Write a program to display names of days by using commandLine arguments.

```

public class NamesOfDays
{
    public static void main(String[] args)
    {
        System.out.println("Enter the names of days: ");
        System.out.println("The days you have entered: ");
    }
}

```

```
        System.out.println(args[0]);  
        System.out.println(args[1]);  
        System.out.println(args[2]);  
        System.out.println(args[3]);  
        System.out.println(args[4]);  
        System.out.println(args[5]);  
        System.out.println(args[6]);  
    }  
}
```

STEPS TO PASS COMMAND LINE ARGUMENTS IN ECLIPSE

run-->run configurations-->arguments-->program arguments-->"pass the command as days"-->run

13) What are the rules of naming the java file.

1. file name should be same as classname
2. if there are multiple classes within the file and all the classes have access specifier as default then we can save it by using any of the class name as filename
3. if there is public class in the file then filename should be same as public class name
4. main method should be present in the class which is public
5. Outer class can only be public and default

14) what are the rules of naming the class.

1. Uppercamel naming conventions

ex: StudentDetailsExample

2. No space between the words

ex: Student Details

3. _ and \$ symbol in the names

ex: Student_Details or Student\$Details,_EmployeeDetails

wrong: student*details, 12studentdetails, studentdetails,

4. Name should be unique

5. name should not be keyword or reserved word

15) what are the rules for naming the methods

1. Methodname follows the lowercamel case

ex: printDetails(), getDetails(), verbNoun(),getMarks(),

printSalary(), main(), save(),println()

2. it should be unique

3. it should not be keyword

16) what are the rules for naming variables in java

1. variable follows the lowercamel case

ex: firstName,lastName,employeeSalary, name, age, grade

2. it should be unique

3. no space betwn words ex: my salary (if you want space then use the _ and \$)

4. it should not be keyword

17) which is the main entry point of java program

public static void main(String[] args)

main():- is the name of the method/entry point of java program

18) who is invoking the main method of java.

main() method in java is always called by JVM (Java Virtual Machine) before any objects are created.

19) why main has to be static method

The main method is declared as static. It is called by JVM when we run a class. The JVM does not know how to create an object of a class.

If we do not declare the main method as static, it will be considered as an instance method. The code will be compiled successfully without generating any error message. But at runtime, the code will generate an exception named: "NoSuchMethodError: main".