

Assignment-2

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

Ans:

```
package assignment;

import java.util.Scanner;

public class Assignment2 {

    public static void main(String[] args)
    {
        String fatherName,motherName,address;
        int fage,mage,salary;
        long phnumber;

        Scanner scan=new Scanner(System.in);
        System.out.println("enter the father name: ");
        fatherName=scan.nextLine();

        System.out.println("enter the mother name: ");
        motherName=scan.nextLine();

        System.out.println("enter the address");
        address=scan.nextLine();
    }
}
```

```
System.out.println("enter the fage: ");
fage=scan.nextInt();
System.out.println("enter the mage: ");
mage=scan.nextInt();
System.out.println("enter the salary: ");
salary=scan.nextInt();
System.out.println("enter the ph number: ");
phnumber=scan.nextLong();
System.out.println("my father name:"
+fatherName+"\n"+"mother name:" +motherName);
System.out.println("my fatherage:" + fage);
System.out.println("my motherage:" +mage);
System.out.println("my family income:"
+salary+"\n"+ "Fnumber:" +phnumber+ "\n" +
"address:" + address);
}
}
```

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

hello

welcome

Edubridge online course

```
package assignment;

public class Print {

    public static void main(String[] args) {

        System.out.println("Hello \n Welcome to \n
        Edubridge online course");

    }

}
```

3. What is default package in java

Ans:

Import java.lang package internally by default

In java there are two packages java.lang package and a no-name package(also called as default package) are imported by default in all the classes in java

4.Scanner class is in which package? Ans:

java.util package ex:

```
import java.util.Scanner    //import the  
scanner class
```

5.list the methods of Scanner class.

Ans:

- nextFloat()-----return float value
- nextInt()-----return int value
- next()-----return strings (word)
- next().charAt(0)----return character
- nextLine()-----read string value from the user (full line)
- nextDouble()----reads a double value
- nextShort()-----reads a short value form the user

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

Ans:

| Data type | Size | Example |
|-----------|---------|-------------------------|
| Byte | 1 byte | byte sno=1; |
| Short | 2 byte | short number=1000; |
| Int | 4 byte | int regno=1234; |
| Long | 8 bytes | long value=12345456L ; |
| Float | 4 byte | float value=12.23F; |
| Double | 8 byte | double value=1234.1234; |
| Boolean | 1 byte | Boolean value=true; |

Character

2 byte

char value=x;

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

```
package assignment;

import java.util.Scanner;

public class Friendsname
{
    public static void main(String[] args)
    {
        Scanner input=new Scanner(System.in); //creating
        object of the scanner class

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

        String[] counts=new String[input.nextInt()];

        System.out.println("Enter the name of the
        friends..!");

        input.nextLine();

        for(int start=0; start<counts.length; start++)
        {
            counts[start]=input.nextLine();
        }

        System.out.println("Your frd List:");
    }
}
```

```
for(String str:counts)
{
System.out.println(str);
}
}
}
```

Output :

```
Enter number:
5
Enter the name of the friends..!
sandel
vijay
saro
vikram
dhanush
Your frd List:
sandel
vijay
saro
```

vikram

dhanush

8. Write a program to do addition 5 number

Ans:

```
package assignment;

import java.util.Scanner;

public class Addnumber {

    public static void main(String[] args) {

        int len=5;

        int i,add,result=0;

        {

            System.out.println("enter the number:");

        }

        for(i=0;i<len;i++)

        {

            Scanner scan=new Scanner(System.in);

            add=scan.nextInt();

            result+=add;

        }

        System.out.println("sum of five number:" + result);

    }

}
```

```
}
```

Output :

```
enter the number:
5
6
7
8
9
sum of five number:35
```

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

Ans:

```
package assignment;
import java.util.Scanner;
public class Printfamilyname {
public static void main(String[] args) {
Scanner scan=new Scanner(System.in);
System.out.println("enter the father name: ");
```



```
String fName=scan.nextLine();  
System.out.println("enter the mother name:");  
String mName=scan.nextLine();  
System.out.println("my fatherName: "+fName + "\n" +  
"my motherName: "+mName );  
}  
}
```

Output :

```
enter the father name:  
loganathan  
enter the mother name:  
indhirani  
my fatherName: loganathan  
my motherName: indhirani
```

**10.write a program to display your name in short like
yourname.fathernamfirstletter.sirname firstletter**

Ans:

```

package assignment;

import java.util.Scanner;

public class mynameFname {

    public static void main(String[] args) {

        String father;

        System.out.println("enter the yourName space  
fatherName:");

        Scanner scan=new Scanner(System.in);

        father=scan.nextLine();

        String[] nameSeperate=father.split(" ");

        String  
initiate=nameSeperate[0]+"."+nameSeperate[1].charAt  
(0)+" son of "+nameSeperate[1];

        System.out.println("Name: " +initiate);

    }

}

```

Output :

```

enter the yourName space fatherName:
santhanam Loganathan
Name: santhanam.L son of Loganathan

```

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

- public---->access modifier/entire program /to call by jvm for run anywhere
- static----->direct access with out object /we can accessing main method directly by using the static
- void--->return to jvm only so i don't want to return anything for jvm
- main---->name of the function/inside jvm
- String[], args----->command line arguments

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

Ans:

```
package assignment;
import java.util.*;
import java.time.LocalDate;
import java.util.Date;
import java.text.Format;
import java.text.SimpleDateFormat;
public class Printfamilyname{
public static void main(String[] args)
{
Calendar cal=Calendar.getInstance();
//LocalDate date =LocalDate.now();
SimpleDateFormat formatter=new
SimpleDateFormat("dd/MM/yy");
```

```
System.out.println("Today date is:
"+formatter.format(cal.getTime()));

Format f =new SimpleDateFormat ("EEEE");

String date= f.format(new Date());

System.out.println("Date: "+date);

}

}
```

Output :

```
Today date is: 04/01/23
Date: Wednesday
```

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

Ans:

- file name should be same as classname
- 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
 - private,public,default,protected
- 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

Ans:

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

Ans:

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

public()

class()

16.what are the rules for naming variables in java

Ans:

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

Ans: ----->public static void main(String[],args)

18.who is invoking the main method of java

Ans:

Jvm----static block---static methods—create object needed---finally
execute the instance methods---jvm executes a static block on the
highest priority basis,it means jvm first goes to static block even
before it looks for the main() method in the program.

The main() method is the starting point of JVM to start the
execution of a java program.Without main() method ,JVM will not
execute the program.

19.why main has to be static method..?

Ans: when we use static keyword--whenever jdk saw the static then jdk understands as static is one of the method in main it means this don't need object.it is class member/class behaviour static members associated with class.it is common to all the objects without object/or before the creation of an object of the class,we can run the program bcoz of static keyword

JVM--**⑦** invoke it without instantiating the class

It also saves unnecessary wastage of memory which would have used by the object declared only for calling the main()method by the JVM.