

1.Find out whether the following file will compile. If it does not compile, how you would fix it?

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

```
    int x = 5;
```

```
    while (x > 1) {
```

```
        x = x + 1;
```

```
        if (x < 3) {
```

```
            System.out.println("small x");
```

```
        }
```

```
        x++;
```

```
    }
```

```
}
```

OUTPUT:

2.Find out whether the following file will compile. If it does not compile, how you would fix it?

```
class Digit {
```

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

```

int x = 1;

while (x < 10) {
    x=x+1;
    if (x > 3) {

        System.out.println("big x");

    }

}

}

}

```

OUTPUT:

3.Find out whether the following file will compile. If it does not compile, how you would fix it?

```

class Loop {
    int x = 5;
    while (x > 1) {
        x = x - 1;
        if (x < 3) {
            System.out.println("small x");
        }
    }
}

```

OUTPUT: **No changes**

4. Personalize the Hello World program with your name so that it tells you Hello rather than the somewhat generic "World."

OUTPUT:

```
import java.util. Scanner;

class demo{

public static void main(String [] args){

String name;

Scanner scan=new Scanner(System.in);

Name=scan.nextLine();

System.out.println("Hello" +name);
```

5. Write a program that produces the following output:

Hello World!

It's been nice knowing you.

Goodbye world!

OUTPUT:

```
class main

{

    public static void main(String[] args){

        System.out.println("Hello World!" + "\n" + "It's been nice knowing you." + "\n" + "Goodbye world!");

    }

}
```

6. Write a program that prints all the integers between zero and 36.

OUTPUT:

```
class num
```

```

{
public static void main(String[] args)
{
for(int i=0;i<=36;i++)
{
System.out.println(i);
}
}
}

```

7.What does the following program print?

// This is the Hello Rank program in Java

```

class HelloRank {

    public static void main (String args[ ]) {

        String name = "Rank";

        System.out.println("Hello + name");

    }

}

```

OUTPUT: Hello + name

8.What is wrong with this program?

```

class Hello {

    public static void main (String args[ ]) {

        int i;

        System.out.print("Hello ");
    }
}

```

```

        i = 0;

        while (i <= args.length) {

            System.out.print(args[i] + " ");

            i = i + 1;

        }
        System.out.println();
    }
}

```

OUTPUT:

This program shows an error has `ArrayIndexOutOfBoundsException` hence,

`while(i<args.length)-->Hello`

9.What is the output of the following program?

```

import java.util.*;

public class Area {

    public static void main(String[ ] args){

        double a;

        double r;

        final double pi = Math.PI;

        r = 1.0;

        a = pi * r * r;

        display(r,a);
    }
}

```

```

r = 1.5;
a = pi * r * r;
display(r,a);

r = 2.0;
a = pi * r * r;
display(r,a);
} //end main
//-----//
static void display(double r, double a){
    System.out.println("For radius = " + r +
        ", area = " + a);
} //end print
} //end Area class

```

OUTPUT:

```

For radius=1.0,area=3.141592653589793
For radius=1.5,area=7.0685834705770345
For radius=2.0,area=12.566370614359172

```

10.Problem Statement:

There are exactly 2.54 centimeters to an inch. Write a program that takes a number of inches from the command line and converts it to centimeters.

OUTPUT:

```

import java.util.Scanner;

class converts{

public static void main(Strings[] args){

float n;

Scanner scan=new Scanner(System.in);

```

```

n=scan.nextInt();

float val=n*2.54f;

System.out.println(val);

}

}

```

11. Write a program that reads two numbers from the command line, the number of hours worked by an employee and their base pay rate. Then output the total pay due

OUTPUT:

```

import java.util.Scanner;

class pay{

public static void main(Strings[] args){

int hr,basepay;

Scanner scan=new Scanner(System.in);

hr=scan.nextInt();

basepay=scan.nextInt();

int totalpay=hr*basepay;

System.out.println(totalpay);

}

}

```

```

12. ass Hexy {

public static void main (String[] args) {

Integer i = 42;

String s = (i<40)?"life"sadi>50)"universe":"everything";

System.out.println(s);

}

}

```

OUTPUT: Everything

13. Program to print a pattern:

Program:

```
import java.util.Scanner;
```

```
public class star {  
  
    public static void main(String[] args)  
    {  
        int i,j,row,col;  
        Scanner scan=new Scanner(System.in);  
        row=scan.nextInt();  
        col=scan.nextInt();  
        for(i=1;i<=row;i++)  
        {  
            for(j=1;j<=col;j++)  
            {  
                System.out.print("*");  
            }  
            System.out.println();  
        }  
    }  
}
```

OUTPUT:

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

14.Program to print pyramid pattern:-

Program:

```
public class star{  
  
    public static void main(String[] args){
```



```
int i,j,row=4;
for(i=1;i<=row;i++)
{
    for(j=row;j>=1;j--)
    {
        if(j>i)
        {
            System.out.print(" ");
        }
        else
        {
            System.out.print(" *");
        }
    }
    System.out.println();
}
}
```

OUTPUT:

```
*
* *
* * *
* * * *
```