

EXPERIMENT NO.1 BASIC PROGRAM USING BRANCHING AND LOOPING

Program of firstprogram:-

```
class firstprogram
{
    public static void main(String args[])
    {
        System.out.println("hello world");
    }
}
```

OUTPUT:-

```
C:\Users\ketan\OneDrive\Desktop\java>javac firstprogram.java
C:\Users\ketan\OneDrive\Desktop\java>java firstprogram.java
hello world
```

Program IF ELSE:-

```
class ifelse
{
    public static void main(String args[])
    {
        int a=2;

        if(a%50==0)
        {
            System.out.println("it is divisible");
        }
        else
```

```
{  
    System.out.println("It is not divisible");  
}  
}
```

```
C:\Users\ketan\OneDrive\Desktop\java>javac ifelse.java  
  
C:\Users\ketan\OneDrive\Desktop\java>java ifelse.java  
It is not divisible
```

Program of NESTED IF:-

```
public class nestedif  
{  
    public static void main(String[] args)  
    {  
  
        int age=25;  
        int weight=48;  
        if(age>=18)  
        {  
            if(weight>50)  
            {  
                System.out.println("You are eligible to donate blood");  
            }  
            else  
            {  
                System.out.println("You are not eligible to donate blood");  
            }  
        }  
        else  
        {
```

```
        System.out.println("Age must be greater than 18");
    }
}
}
```

OUTPUT:-

```
C:\Users\ketan\OneDrive\Desktop\java>javac nestedif.java

C:\Users\ketan\OneDrive\Desktop\java>java nestedif.java
You are not eligible to donate blood
```

Program for loop:-

```
class loop
{
    public static void main(String arg[])
    {
        int a=5;
        for(int i=0;i<a;i++)
        {
            System.out.println("i");
        }
    }
}
```

```
C:\Users\ketan\OneDrive\Desktop\java>javac loop.java

C:\Users\ketan\OneDrive\Desktop\java>java loop.java
i
i
i
i
i
```

Program of Dowhile:-

```
class dowhile
{
    public static void main(String args[])
    {
        int a=2;
        do
        {
            System.out.println(a);
            a++;
        }
        while(a<25);
    }
}
```

OUTPUT:-

```
C:\Users\ketan\OneDrive\Desktop\java>javac dowhile.java
C:\Users\ketan\OneDrive\Desktop\java>java dowhile.java
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

Program of While loop:-

```
class whileloop
{
    public static void main(String args[])
    {
        int a=0;
        while(a<10)
        {
            System.out.println(a);
            a++;
        }
    }
}
```

```
C:\Users\ketan\OneDrive\Desktop\java>javac whileloop2.java
```

```
C:\Users\ketan\OneDrive\Desktop\java>java whileloop2.java
```

```
0
1
2
3
4
5
6
7
8
9
```