1.PROGRAMS BASED ON BASIC PROGRAMMING CONSTRUCTS LIKE BRANCHING AND LOOPING.

a) FOR LOOP:

```
class Cont
{
public static void main(String args[])
{
int a=5;
int i;
for(i=0;i<a;i++)
{
if(i%2==0)
{
continue;
}
else{
System.out.print(+i+ " is odd number");
}
}
}
}
```

OUTPUT:

```
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dnyanesh>CD C:\Users\Dnyanesh\Desktop\java

C:\Users\Dnyanesh\Desktop\java>javac for.java

C:\Users\Dnyanesh\Desktop\java>java for.java
1 is odd number3 is odd number
C:\Users\Dnyanesh\Desktop\java>
```

b) WHILE LOOP

```
class While
{
```

```
public static void main(String args[])
{
int i=0;
while (i<11)
{
System.out.println(+i);
i++;
}
}
}
```

OUTPUT:

```
C:\Users\Dnyanesh\Desktop\java>javac while.java

C:\Users\Dnyanesh\Desktop\java>java while.java
0
1
2
3
4
5
6
7
8
9
10
```

c) **DO WHILE LOOP**

```
class Dowhile
{
public static void main(String args[])
{
int i=1;
do
{
System.out.println(i);
i++;
}while(i<10);
}
}
```

OUTPUT:

```
C:\Users\Dnyanesh\Desktop\java>javac Dowhile.java

C:\Users\Dnyanesh\Desktop\java>java Dowhile.java
1
2
3
4
5
6
7
8
9

C:\Users\Dnyanesh\Desktop\java>
```

d) **IF STATEMENT:**

```
class Ifstatement
{
public static void main(String args[])
{
int a=5;
int b=3;
if(a>b)
{System.out.println("a is greater");}
}
}
```

OUTPUT:

```
C:\Users\Dnyanesh\Desktop\java>javac ifstatement.java

C:\Users\Dnyanesh\Desktop\java>java ifstatement.java
a is greater
```

e) **IF-ELSE STATEMENT:**

```
class IfElsestatement
{
public static void main(String args[])
{
int a=1;
```

```
int b=3;
if(a>b)
{System.out.println("a is greater");}
else{
System.out.println("b is greater");}
}
}
```

OUTPUT:

```
C:\Users\Dnyanesh\Desktop\java>java IfElsestatement.java
b is greater
```

f) IF-ELSE LADDER:

```
class Ladder
{
public static void main(String args[])
{
int a=5;
int b=6;
int c=7;
if(a>b && a>c)
{
System.out.println("a is greatest");
}
else if(b>a && b>c)
{System.out.println("b is greatest");
}
else{
System.out.println("c is greatest");}
}
}
```

OUTPUT:

```
C:\Users\Dnyanesh\Desktop\java>javac Ladder.java

C:\Users\Dnyanesh\Desktop\java>java Ladder.java
c is greatest
```

g) SWITCH STATEMENT:

```
class Switch
{
public static void main(String args[])
{
int ch=4;
switch (ch)
{case 1:
System.out.println("Monday");
```

```
break ;
case 2:
System.out.println("Tuesday");
break;
case 3:
System.out.println("Wednesday");
break;
case 4:
System.out.println("Thursday");
break;
case 5:
System.out.println("Friday");
break;
case 6:
System.out.println("Saturday");
break;
case 7:
System.out.println("Sunday");
break;
}
}
```

OUTPUT:

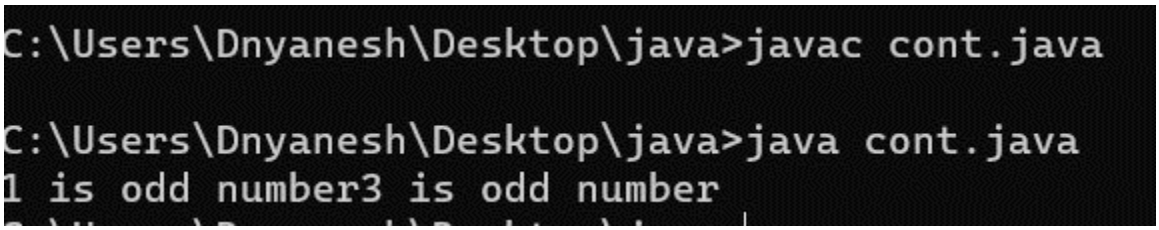
```
C:\Users\Dnyanesh\Desktop\java>javac switch.java

C:\Users\Dnyanesh\Desktop\java>java switch.java
Thursday
```

h) CONTINUE STATEMENT:

```
class Cont
{
public static void main(String args[])
{
int a=5;
int i;
for(i=0;i<a;i++)
{
if(i%2==0)
{
continue;
}
else{
System.out.print(+i+ " is odd number");
}
```

```
}
}
}
```

OUTPUT:


C:\Users\Dnyanesh\Desktop\java>javac cont.java
C:\Users\Dnyanesh\Desktop\java>java cont.java
1 is odd number3 is odd number