

Day 15

char  $\xrightarrow{\text{range}}$  0 to 65535.

UTF  $\rightarrow$  Unicode Transformation format

Date: 24/01/20

- character stores upto 0 to 65535 range of data but in java unicode is upto 0 to ~~127~~ <sup>65,535</sup> that why after 127 it will display different values or symbols.
- Range in Java for ASCII is 0 to 127.

Q21)

WAP to check whether character is in upper case or not?

$\rightarrow$

```
import java.util.Scanner;  
class Q21UpperCaseRangeCheck  
{
```

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

```
        System.out.print("\nEnter character :");  
        char ch = new Scanner (System.in).next().charAt(0);
```

```
        String res = (ch >= 65 && ch <= 90) ? (ch + " is in upper  
        case") : (ch + " Not in upper case");
```

```
        System.out.println ("\n" + res);  
    }  
}
```

Q22)

WAP to check whether character is in lower case or not?

$\rightarrow$

```
import java.util.Scanner;  
class Q22LowerCaseRangeCheck  
{
```

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

```
        System.out.print("\nEnter character :");
```

Date :

```
char ch = new Scanner(System.in).next().charAt(0);
```

```
String res = (ch >= 97 && ch <= 122) ? (ch + " is in lowercase")  
: (ch + " Not in lowercase");
```

```
System.out.println("\n" + res);
```

```
}
```

```
}
```

Q23) WAP to check whether character is a digit or not;

→

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

```
class Q23 DigitsCheck
```

```
{
```

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

```
        System.out.println ("Enter character :");
```

```
        char ch = new Scanner(System.in).next().charAt(0);
```

```
        String res = (ch >= 48 && ch <= 57) ? (ch + " is A digit") :  
        (ch + " is Not A digit");
```

```
        System.out.println ("\n" + res);
```

```
    }
```

```
}
```

Q24) WAP to check whether character is in uppercase or lowercase or Digit or Special symbol.

→

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

```
class Q24 Upper & Lower & Digits & Range Check
```

```
{
```



Date :

```
public static void main (String args[])
{
    System.out.print("Enter character:");
    char ch = new Scanner (System.in).next().
        charAt(0);

    String res =
        (ch >= 65 && ch <= 90) ? (ch + " IS In uppercase") :
        (ch >= 97 && ch <= 122) ? (ch + " IS In lowercase") :
        (ch >= 48 && ch <= 57) ? (ch + " IS A digit ") :

    System.out.println("\n" + res);
}
```

Q25)

WAP to display Hi Two if num%2==0 or  
Hi Five if num%5==0 and HiTwoHiFive if  
num%2==0 && num%5==0.

→

```
import java.util.Scanner;
class Q25HiTwoFive
{
    public static void main (String args[])
    {
        System.out.print("Enter A Number:");
        int num = new Scanner (System.in).nextInt();

        String res = (num%2==0 && num%5==0) ? "HiFiveHi
            Two" : (num%2==0) ? ("HiTwo") :
            (num%5==0) ? ("HiFive") : ("Blank");

        System.out.println("\n" + res);
    }
}
```

Date :

Q26)

WAP to check whether character is vowel or consonant.

→

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

```
class Q26Vowel
```

```
{
```

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

```
        System.out.println("Enter character :");
```

```
        char ch = new Scanner (System.in).next().charAt(0);
```

```
        String res = (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'u' ||
```

```
                        ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' ||
```

```
                        ch == 'O' || ch == 'U') ? (ch + "Is vowel") :
```

```
                        ch + "Is consonant");
```

```
        System.out.println(res);
```

```
    }
```

```
}
```

Q27)

Program of Deloitte.

→

```
class Q27Deloitte
```

```
{
```

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

```
        int students = 10;
```

```
        int cnt = 15;
```

```
        System.out.println ("The cnt %d students") + 1);
```

```
    }
```

```
}
```