Assignment - 1
Input and Output in C Language

Name :- Sandeep Wadhawan

Q1) W.A.P to print "Hello Students" on the screen.

Solution:-
```c
#include <stdio.h>
int main ()
{
        printf ("Hello Students");
        return 0;
}
```

Q2) W.A.P to print "Hello" in the first line and "Students" in the second line.

Solution:-
```c
#include <stdio.h>
int main ()
{
        printf ("Hello \n Students");
        return 0;
}
```

Q3) W.A.P to print "My Sir6" on the screen. (Remember to print in double quotes)

Solution:
```c
int main ()
{
        printf ("\" MySir6 \" ");
        return 0;
}
```

Q4) W.A.P to find the area of the circle.
Take radius of circle from user as input
and print the result in below given format.

Expected Output Format — "Area of circle is A
having the radius R". Replace A with area and
R with radius.

Solution :-

```c
#include <stdio.h>
int main()
{
        float R, A;
        printf("Enter the radius of circle:");
        scanf("%f", &R);
        A = 3.14 * R * R;
        printf("Area of circle is %f having
                radius %f", A, R);
        return 0;
}
```

Q5) WAP to calculate the length of string using
printf function.

Solution:-

```c
#include <stdio.h>
#include <string.h>
int main()
{
        char str[20];
        printf("Enter the string: ");
```

```
scanf ("%s", &str);
printf ("The length of a string is: %d",
            strlen(str));
return 0;
}
```

Output

Enter the string: HelloTechnology
The length of string is: 15

Q6) WAP to print the name of the user in double quotes.

Expected output format — "Hello, Amit Kumar"

Solution :-
```
#include <stdio.h>
int main()
{
    char name[] = "Amit Kumar";
    printf("\"Hello, %s\"", name);
    return 0;
}
```

Q7) WAP to print "%d" on the screen.

Solution :-
```
#include <stdio.h>
int main()
{
    printf("%%d");
    return 0;
}
```

Q8) WAP to print "\n" on the screen.

Solution :-
```c
#include <stdio.h>
int main ()
{
    printf ("\\n");
    return 0;
}
```

Q9) WAP to print "\\" on the screen.

Solution :-
```c
#include <stdio.h>
int main ()
{
    printf ("\\\\");
    return 0;
}
```

Q10) WAP to take date as an input in below given format and convert the date format and display the result as given below.

User Input date format — "DD/MM/YYYY"
(27/11/2022)

output format —
"Day – DD, Month – MM, Year – YYYY"
(Day – 27, Month – 07, Year – 2022)

Solution :-
```c
#include <stdio.h>
int main ()
{
    int DD, MM, YYYY;
```

```
printf ("Enter the date: ");
scanf ("%d/%d/%d", &DD, &MM, &YYYY);
printf (" Day - %d ", DD);
printf (", Month - %d ", MM-4);
printf (", Year - %d ", YYYY);
return 0;
}
```

Output

Enter the date: 27/11/2022

Day - 27, Month - 7, Year - 2022

Q11) WAP to take time as an input in below given format and convert the time format and display the result as given below.

User Input date format — "HH: MM"
Output format — "HH Hour and MM Minute
Example — "11:25" converted to "11 Hour and 25 Minute"

Solution:—
```
#include <stdio.h>
int main ()
{
    int HH, MM;
    printf (" Enter the Time: ");
    scanf ("%d: %d", &HH, &MM);
```

```c
    printf("%d Hour and %d Minute", HH, MM);
    return 0;
}
```

Output

Enter the time :- 11 : 25
11 Hour and 25 Minute

Q12) Find output of below code :

```c
int main ()
{
    int x = printf ("ineuron");
    printf("%d ", x);
    return 0;
}
```

Solution :- _ineuron7_ is the output of the above code.

——X——————X———X————X——————X—————X———