

# Assignment-6 - C Language

①

Q1 Write a Program to Print Size of an int, a float, a char and a double type variable.

```
#include <stdio.h>
```

```
int main()
```

```
{  
    printf("Size of int : %zu bytes /n", Size of (int));  
    printf("Size of float : %zu bytes /n", Size of (float));  
    printf("Size of a char : %zu bytes /n", Size of (char));  
    printf("Size of a double : %zu bytes /n", Size of (double));
```

```
    return 0;
```

```
}
```

Q2 Write a Program to find last Digit of a given number.

```
#include <stdio.h>
```

```
int main()
```

```
{  
    printf int n;
```

```
    printf("Enter number");
```

```
    scanf("%d", &n);
```

```
    printf("last Digit of any number : %d", n%10);
```

```
    return 0;
```

```
}
```

Q3 Write a Program to find first Digit of a given three digit number.

```
#include <stdio.h>
```

```
int main()
```

```
{  
    int n;
```

```
    printf("Enter number");
```

```
    scanf("%d", &n);
```

```
    printf("first Digit of three Digit Number : %d", n/100);
```

```
    return 0;
```

```
}
```

P.T.O

Q4) Write a Program to find middle digit of a given three digit number (2)

```
#include <stdio.h>
```

```
int main();
```

```
{ int n, a;
```

```
    printf("Enter number");
```

```
    scanf("%d", &n);
```

```
    a = (n/10)%10;
```

```
    printf("Middle Digit of any three Digit Number : %d", a);
```

```
    return 0;
```

```
}
```

Q5) Write a Program to Swap values of two int variable.

```
#include <stdio.h>
```

```
int main()
```

```
{ int a=20, b=10, c
```

```
    c = a;
```

```
    a = b;
```

```
    b = c;
```

```
    printf("%d\n", a, b);
```

```
    printf("a = %d\n b = %d", a, b);
```

```
    return 0;
```

```
}
```

Q6) Write a Program to Swap values of two int <sup>variables</sup> ~~values~~ without using third variable

```
#include <stdio.h>
```

```
int main();
```

```
{ int a=40, b=100;
```

```
    a = a+b;
```

```
    b = a-b;
```

```
    a = a-b;
```

```
    printf("a = %d\n b = %d", a, b);
```

```
    return 0;
```

```
}
```

P.T.O

17) Write a Program to make the last Digit of a number stored in a variable as zero (Example - If  $x=2345$  then make it  $x=2340$ )

```
#include <stdio.h>
int main()
{
    int n, a;
    printf("Enter number");
    scanf("%d", &n);

    a = n % 10;
    printf("n = %d", n = n - a);
    return 0;
}
```

18) Write a Program to input a number from the user and also input a Digit. Append a Digit in the number and Print the resulting number (Ex - number = 234 and digit = 9 then the resulting number is 2349)

```
#include <stdio.h>
int main()
{
    int number, Digit, final_result;
    printf("Enter number and Digit");
    scanf("%d %d", &number, &Digit);
    final_result = (number * 10) + Digit;
    printf("final-Digit : %d", final-Digit);
    return 0;
}
```

19) Assume Price of 1 USD is INR 76.23. Write a Program to take the amount in INR and Convert it into USD

```
#include <stdio.h>
int main()
{
    double INR, USD, exchange_Rate = 76.23;
    printf("Enter INR");
    scanf("%lf", &INR);

    USD = INR / exchange_Rate;
    printf("%lf INR Convert into USD : %lf", INR, USD);
    return 0;
}
```

20) Write a Program to take a three digit number from the user and rotate it by one position towards the right.

```
#include <stdio.h>
int main()
{
    int a, b;
    printf("Enter number");
    scanf("%d", &a);

    b = (a % 10) * 100 + a / 10;
    printf("number after shifting : %d", b);
    return 0;
}
```