

Assignment - 6

(1) write a program to print size of an int, a float, a char and a double type variable

```
Ans #include <stdio.h>
#include <conio.h>
int main()
{
    int a;
    char b;
    float c;
    double d;

    printf("%i", sizeof(a));
    printf("%i", sizeof(b));
    printf("%i", sizeof(c));
    printf("%i", sizeof(d));

    return 0;
}
```

Output: 4  
1  
4  
8

(2) write a program to find last digit of a given No.

```
Ans #include <stdio.h>
int main()
{
    int a;
    printf("Enter a Number");
    scanf("%i", &a);

    int last = a % 10;
    printf("Last digit is %i", last);

    return 0;
}
```

Output: Enter a Number  
536  
Last digit is 6



Q.7) write a program to find first digit of a given three digit number.

Ans

```
#include <stdio.h>
int main()
{
    int a;
    printf("Enter three digits Number");
    scanf("%d", &a);
    int first = a / 100;
    printf("first digit is %d", first);
    return 0;
}
```

Output: Enter three digit No. 543  
first digit is 5

Q.8) write a program to find middle digit of a given three digit number.

Ans

```
#include <stdio.h>
int main()
{
    int a;
    printf("Enter a three digit number");
    scanf("%d", &a);
    int middle = a / 10;
    printf("Middle digit is %d", middle % 10);
    return 0;
}
```

Output: Enter a three digit No. 356  
Middle digit is 5



(5) write a program to swap value of two int variables.

Ans #include <stdio.h>

int main()

{

int a, b, temp;

printf("Enter two Numbers\n");

scanf("%d %d", &a, &b);

temp = a;

a = b;

b = temp;

printf("Swap a = %d b = %d", a, b);

return 0;

output

Enter two Numbers

a = 5

b = 3

3  
5

(6) write a program to swap value of two int variables without using third variable.

Ans #include <stdio.h>

int main()

{

int a, b;

printf("Enter two Numbers");

scanf("%d %d", &a, &b);

a = a + b;

b = a - b;

a = a - b;

printf("a = %d b = %d", a, b);

return 0;

output:

Enter two Numbers 3 5

a = 4

b = 3



Q7) write a program to make the last digit of a number stored in a variable as zero.  
(Example - if  $x = 2345$  then make it  $x = 2340$ )

Ans

```
#include <stdio.h>
int main()
{
    int x;
    printf("Enter a Number");
    scanf("%d", &x);
    int Action = (x/10) * 10;
```

printf("Store in a variable is %d", Action);

return 0; Output: Enter a Number  
2345  
Store in a variable is 2340

Q8) write a program to <sup>input</sup> a number from the user and also input a digit. Append a digit in the number and print the resulting number.  
Example (number = 234 and digit = 9 then the resulting 2349).

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

```
int main()
```

```
{
```

```
    int n;
```

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

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

```
    int hide = (n/10) * 10 + 9;
```

```
    printf("Append digit is %d", hide);
```

```
    return 0;
```

Output: Enter a number

2345

Append digit is 2349



Q. Assume price of 1 USD in INR 76.23 write a program to take the amount in INR and convert it into USD.

Ans #include <stdio.h>  
int main()

{  
int USD = 1, INR = 76.23;  
float convert = 1/76.23;

printf("INR convert to USD in USD = %.f", convert);  
return 0;

}  
Output:  
INR convert to USD  
USD = 0.013118.

Q. write a program to take a three digit number from the user and rotate its digits by one position towards the right.

Ans #include <stdio.h>  
int main()

{  
int a, x, y;  
printf("Enter a number three digit");  
scanf("%d", &a);  
x = a % 10;  
y = a / 10;

int rotate = x \* 100 + y;

printf("Rotate ~~first~~ one position is %.d", rotate);

return 0;  
Output: Enter a Number 570  
Rotate one position is 657