

# Assignment-6:

22.06.2022

7.53 PM

1.

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int a;
    float b;
    char ch;
    double db;
    printf("Enter the size of a = %d", sizeof(a));
    printf("\nSize of b = %d", sizeof(b));
    printf("\nSize of ch = %d", sizeof(ch));
    printf("\nSize of db = %d", sizeof(db));
}
```

2.

```
#include <stdio.h>
int main()
{
    int a, r;
    printf("Enter the number = ");
    scanf("%d", &a);
    r = a % 10;
    printf("The last digit of %d is %d", a, r);
    getch();
}
```



int main)

```

2 int a, k, t, count = 0;
  printf("Enter the number = ");
  scanf("%d", &a);
  k = a;
  t = a;
  while (k != 0)
  {
    count++;
    k = k/10;
  }
  while (count != 0)
  {
    a = a/10;
    count--;
  }
  printf("first digit of %d = %d", t, a);

```

123/10 = 12  
 12/10 = 1  
 1/10 = 0

~~for~~ while (n != 0)  
 r = n/10 12, 3, 2  
 n = n/10 12  
 c = 8 1234  
 c = 1 1234  
 r = 123, 12, 1  
 c =

123  
 r = a/10  
 r = 12

4.

```

#include <stdio.h>
#include <conio.h>
int main)

```

```

{
  int num, p, k, count, r;
  printf("Enter the number = ");
  scanf("%d", &num);
  p = num;
  k = num;
  while (p != 0)
  {
    count++;
    num = num/10;
  }
  tem = count;
  while (count != tem/2)
  {
    r = k%10;
    k = k/10;
    count--;
  }
  printf("middle digit of %d = %d", num, r);
  getch();
}

```

$\frac{3}{2}$   $\frac{3}{2}^2$

while (k != 0)  
 c++;  
 k = k/10;  
 p = count;  
 while (count != p/2)  
 r = 3  
 a = a/10  
 c =

123  
 a%10 = 3, 2  
 a/10 = 12  
 a = a/10  
 r = 16%10 = 6  
 a = a/10 = 16  
 12345  
 c = 5  
 p = 5  
 while (count != 2)  
 r = 4  
 a = 1234, 123  
 c =



```
#include <stdio.h>
#include <conio.h>
int main()
```

```
{
    int a, b, k;
    printf("Enter two number=");
    scanf("%d %d", &a, &b);
    k = a;
    a = b;
    b = k;
    printf("Swapped value of a=%d and b=%d", a, b);
    getch();
}
```

6.

```
#include <stdio.h>
#include <conio.h>
int main()
```

```
{
    int a, b;
    printf("Enter two number=");
    scanf("%d %d", &a, &b);
    a = a + b;
    b = a - b;
    a = a - b;
    printf("Swapped value a=%d and b=%d", a, b);
    getch();
}
```

$a = 10$   
 $b = 20$   
 $a = 30$   
 $b = 30 - 20 = 10$   
 $a = 30 - 10 = 20$

7.

```
#include <stdio.h>
#include <conio.h>
int main()
```

```
{
    int x, r;
    printf("Enter the digit=");
    scanf("%d", &x);
    r = x / 10;
    printf("Final result = %d", r);
}
```



8. ~~#include <stdio.h>~~  
 #include <conio.h>  
 int main()

```
{
  int x, y;
  printf("Enter the number and digit = ");
  scanf("%d %d", &x, &y);
  printf("Final result = %d %d", x, y);
  getch();
}
```

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

```
{
  float x, USD;
  printf("Enter the amount in INR = ");
  scanf("%f", &x);
  USD = x * (1/76.23);
  printf("%f INR = %f USD", x, USD);
  getch();
}
```

$$1 \text{ USD} \rightarrow 76.23 \text{ R}$$

$$1 \text{ R} \rightarrow \frac{1}{76.23} \text{ USD}$$

10.

123

1 2 13