## SUBJECT- PROGRAMMING AND DATA STRUCTURE USING C (PDSC)

## **LECTURE-M. Thangavel**

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1. Print "your name - SOA University".

```
Ans:-
#include <stdio.h>
int main()
{

printf("Tanmoy Pramanick-SOA University");

return 0;
}

OUTPUT:-

9 #include <stdio.h>
10 int main()
11 {
12 printf("Tanmoy Pramanick-SOA University");
13 return 0;
14 }
15

input

Tanmoy Pramanick-SOA University
```

2. Print your name, mobile number and email id in different lines.

```
Ans:-
#include <stdio.h>
int main()
{
printf("NAME-Tanmoy Pramanick\n""PHN NO:-7978557446\n""EMAIL-ID-pramanickt15@gmail.com");
return 0;
}
OUTPUT:-
```

```
9 #include <stdio.h>
10 int main()
11 {
12 printf("NAME-Tanmoy Pramanick\n""PHN NO:-7978557446\n""EMAIL-ID-pramanickt15@gmail.com");
13 return 0;
14 }
15
16
```

```
input

NAME-Tanmoy Pramanick

PHN NO:-7978557446

EMAIL-ID-pramanickt15@gmail.com
```

3. Get int, float and char as input, then print the same.

```
Ans:-
#include <stdio.h>
int main()
{
```

```
int a=8;
    float b=4.7;
    char c='T';
   printf("%d\n%g\n%c\n",a,b,c);
   return 0;
   }
   OUTPUT:-
       10 int main()
          int a=8;
          float b=4.7;
           char c='T';
printf("%d\n%g\n%c\n",a,b,c);
     Y 2 3
4. Find the cube of the given number.
```

```
Ans:-
#include <stdio.h>
int main()
int num, cube;
printf("enter a num");
scanf("%d",&num);
cube=num*num*num;
printf("cube=%d",cube);
return 0;
OUTPUT:-
```

```
#include <stdio.h>
  10 int main()
  11 - {
  12 int num, cube;
           tf("enter a num");
f("%d",&num);
  15 cube=num*num*num;
            :f("cube=%d",cube);
      return 0:
V 2 3
enter a num6
cube=216
```

5. Find the sum of five given numbers.

```
Ans:-
#include <stdio.h>
int main()
{
int a,b,c,d,e,sum;
printf("enter");
scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);
sum=a+b+c+d+e;
printf("sum=%d",sum);
return 0;
}
OUTPUT:-
```

6. Find a student average mark given mark1 and mark2.

```
Ans:-
#include <stdio.h>
int main()
{
float mark1,mark2,avg;
printf("enter");
scanf("%f%f",&mark1,&mark2);
avg=(mark1+mark2)/2;
printf("avg=%g",avg);
return 0;
}
OUTPUT:-
```

```
#include <stdio.h>
10 int main()
11 {
12 float mark1,mark2,avg;
printf("enter");
14 avg=(mark1+mark2)/2;
printf("avg=%g",avg);
return 0;
18
19
20
21
input
enter8
7
avg=7.5
```

7. Calculate the total fine charged by library for late-return books. The charge is 0.20 INR for 1 day.

Ans-

```
#include <stdio.h>
int main()
{
  int days,fine;
  printf("enter days");
  scanf("%d",&days);
  fine=days*0.20;
  printf("fine=%d",fine);
```

Ans:-

8. You had bought a nice shirt which cost Rs.29.90 exclusive of 15% discount. Count the discounted price for the shirt.

```
#include <stdio.h>
int main()
{
float cost=29.90,actualprice,discountprice;
actualprice=cost*0.15;
discountprice=cost-actualprice;
printf("discountprice=%g",discountprice);
return 0;
}
OUTPUT:-

9  #include <stdio.h>
10  int main()
11  *{
12  float cost=29.90,actualprice,discountprice;
13  actualprice=cost*0.15;
14  discountprice=cost-actualprice;
15  printf("discountprice=%g",discountprice);
16  return 0;
17  }
18
19
20
```

9. swap two numbers with third variable

input

```
Ans:-
#include <stdio.h>
int main()
{
  int a=5,b=6,c;
  c=a;
  a=b;
  b=c;
  printf("a=%d\nb=%d\n",a,b);
```

discountprice=25.415

10. swap two numbers without third variable.

```
Ans:-
#include <stdio.h>
int main()
{
  int a=5,b=6;
  a=a+b;
  b=a-b;
  a=a-b;
  printf("a=%d\nb=%d\n",a,b);
  return 0;
}
OUTPUT:-
```

```
9  #include <stdio.h>
10  int main()
11  {
    int a=5,b=6;
    a=a+b;
    b=a-b;
    a=a-b;
    printf("a=%d\nb=%d\n",a,b);
    return 0;
    }
19

    ***
a=6
b=5
```