Semester: 1 year/ I semester

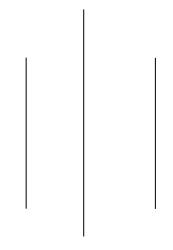
**Program: BIT** 





## COLLEGE OF MANAGEMENT & INFORMATION TECHNOLOGY

## **BACHELOR IN INFORMATION TECHNOLOGY**



## **ASSIGNMENT ON**

## **ASSIGNMENT NUMBER:**

Submitted by: sunil kumar goley tamang Submitted to: Lincoln University

college

Year/ Semester: 1 Year/ I semester

LCID: LC00017000862

Date:06-03-2020

Semester: 1 year/ I semester

**Program: BIT** 

1. Write a program in C to print all the prime numbers between 1 and 100.

```
> Solution:
           #include <stdio.h>
           int main()
            {
           int i, Number, count;
           printf(" Prime Number from 1 to 100 are: \n");
           for(Number = 1; Number <= 100; Number++)
            {
            count = 0;
            for (i = 2; i \le Number/2; i++)
             if(Number\% i == 0)
               count++;
               break;
            }
            if(count == 0 \&\& Number != 1)
           printf(" %d ", Number);
             }
           return 0;
           Output: Prime Number from 1 to 100 are: 2 3 5 7 11 13 17 19 23
           29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
2. Write a program in C to generate following pattern: 1 23 456 78910
       > Solution:
           #include<stdio.h>
           int main()
            {
           int rows, i, j, number= 1;
            printf("Enter number of rows: ");
            scanf("%d", &rows);
            for (i=1; i<=rows; i++)
```

for (j=1; j<=i; ++j)

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```
{
  printf("%d ", number);
++number;
}
printf("\n");
}
return 0;
}
```

- 3. Write a menu driven program using switch case to calculate
  - a. Area of circle
  - b. Area of sphere

```
> Solution:
   #include <stdio.h>
    void main ()
    {
     int choice,r;
        float area;
       printf("Input 1 for area of circle\n");
        printf("Input 2 for area of sphere\n");
        printf("Input your choice : ");
        scanf("%d",&choice);
       switch(choice)
          case 1:
                 printf("Input radius of the circle : ");
                 scanf("%d",&r);
                 area=3.14*r*r;
                 break;
          case 2:
         printf("Input radius of the sphere : ");
         scanf("%d",&r);
         area=4*3.14*r*r;
         break;
    printf("The area is : %f\n",area);
    }
```

4. Some text file is given; create another text file replacing the following words "Ram" to "Hari", "Sita" to "Gita", and "Govinda" to "Shiva". Define a

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structure Employee having data members name, address and salary. Take data for n employee in an array dynamically and find the average salary.

```
> Solution: #include<stdio.h>
   #include<conio.h>
   void main()
    {
    FILE *fp,*fpp;
   char c[10];
    fp=fopen("cat.txt","r");
    if(fp==NULL)
    printf("The file named cat.txt cannot be opened");
    exit(1);
   fpp=fopen("dog.txt","w");
    if(fpp==NULL)
   printf("File with the name dog.txt cannot be created");
     exit(1);
   while(fscanf(fp,"%s",c)!=EOF)
    if(strcmp(c,"Ram")==0)
    fprintf(fpp,"Hari",c);
   else if(strcmp(c,"Sita")==0)
    fprintf(fpp,"Gita",c);
    else if(strcmp(c, "Govinda")==0)
    fprintf(fpp, "Shiva", c);
    else fprintf(fpp,"%s",c);
    printf("completed!");
   fclose(fp);
    fclose(fpp);
    }
```

> Solution:

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```
#include<stdio.h>
#define n 5
int main()
struct employee
char name[30];
char address[30];
float salary;
}s[n];
int i;
float avgsalary,sum=0;
//Loop to read data for n employee
for(i=0;i< n;i++)
printf("\nEnter details of employee %d\n",i+1);
printf("Enter name:");
fgets(s[i].name,30,stdin);
printf("Enter salary:");
scanf("%f",&s[i].salary);
fflush(stdin);
printf("Enter address:");
fgets(s[i].address,30,stdin);
}
//Loop to find the sum of salary of all employees
```

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```
for(i=0;i<n;i++)
{
sum=sum+s[i].salary;
}
avgsalary=sum/n;
printf("Average salary of employee:%f",avgsalary);
return 0;
}</pre>
```