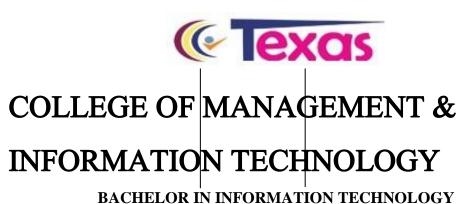
Program: BIT FALL 2019 Semester: 1 Year/ I semester





ASSIGNMENT

Submitted by: Submitted to:

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Date: 2020.06.27

Program: BIT FALL 2019 Semester: 1 Year/ I semester

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

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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)
 {
 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");
```

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```
printf("Input 2 for area of sphere\n");
                        choice : ");
printf("Input
              your
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
```

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>

Course Code: BIT 115

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```
}
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:

```
#include<stdio.h>
#define n 5 int
main()
{
```

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