Marwadi University
Faculty of Technology
Department of Information and Communication Technology

Experiment: 1

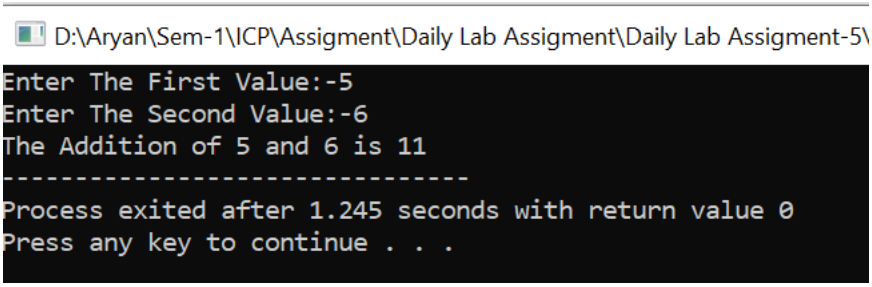
Aim: Create a user define function named sum which accept 2 arguments (of integer type) and return the sum of them

Software: Dev C++

Code:

```
#include<stdio.h>

int sum(int a, int b)
{
	return a+b;
}

int main()
{
	int a,b;

	printf("Enter The First Value:-");
	scanf("%d",&a);

	printf("Enter The Second Value:-");
	scanf("%d",&b);

	printf("The Addition of %d and %d is %d",a,b,sum(a,b));

	return 0;

}
```

Output:



Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Marwadi University
Faculty of Technology
Department of Information and Communication Technology

Experiment: 2

1. **Aim:** Create a user define function named evenodd which accept one argument (of integer type) and return if the number is even or odd.

Software: Dev C++

Code:

```
#include<stdio.h>

void evenodd(int a)
{
	if(a%2==0)
	{
		printf("%d Is A Even Number",a);
	}

	else
	{
		printf("%d Is A Odd Number",a);
	}
}

int main()
{
	int a;

	printf("Enter A Number:-");
	scanf("%d",&a);

	evenodd(a);

	return 0;

}
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Daily Lab Assigment\Daily Lab Assigment-
Enter A Number:-4
4 Is A Even Number
--------------------------------
Process exited after 0.9922 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Marwadi University
Faculty of Technology
Department of Information and Communication Technology

Experiment: 3

Aim: Create a user define function named power which accept two arguments (of integer type) (i) base (ii) expon and display the base^expon value

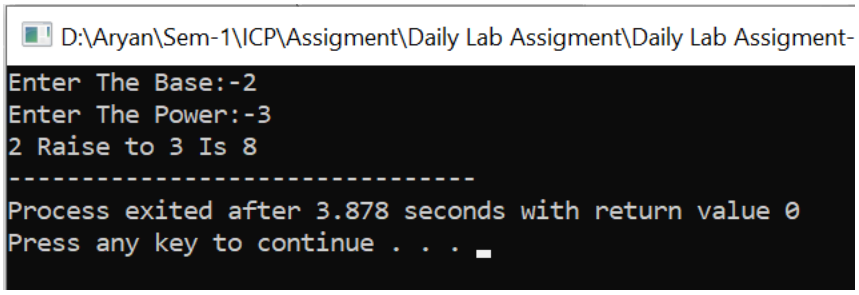
Software: Dev C++

Code:-

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

int power(int base,int exp)
{
	int ans;
	ans=pow(base,exp);
	return ans;
}

int main()
{
	int base,exp;

	printf("Enter The Base:-");
	scanf("%d",&base);

	printf("Enter The Power:-");
	scanf("%d",&exp);

	printf("%d Raise to %d Is %d",base,exp,power(base,exp));

	return 0;

}
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Output:



Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Marwadi University
Faculty of Technology
Department of Information and Communication Technology

Experiment: 4

Aim: Write a void function which count the area and perimeter of circle(Call By Reference) witch passes radius , address of area variable and address of perimeter variable with declaration like Void count(float , float *, float *)

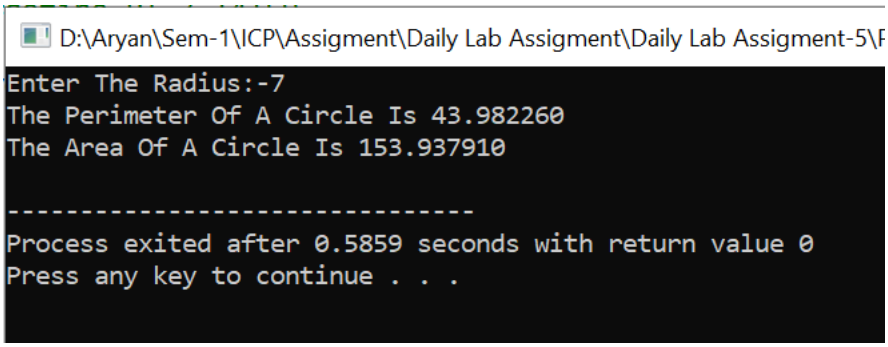
Software: Dev C++

Code:-

```
#include<stdio.h>
#define PI 3.14159

void area_perimeter(double *radius,double *area,double *perimeter)
{

	*area = PI * (*radius) * (*radius);
	*perimeter= 2*PI*(*radius);

	printf("The Perimeter Of A Circle Is %lf\n",*perimeter);
	printf("The Area Of A Circle Is %lf\n",*area);
}

int main()
{
	double radius,area,perimeter;

	printf("Enter The Radius:-");
	scanf("%lf",&radius);

	area_perimeter(&radius,&area,&perimeter);

	return 0;

}
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Output:-



Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 5

1. **Aim:-** Write a function to find out maximum from of n no of values. User has to pass n no of elements and Address of first variable in an array. With declaration like int findmax(int,int *).

Software:- Dev C++

Code:-

```
#include<stdio.h>

void maxn(int n,int *a[n])
{
	int max= *a[0];

	for(int i=0;i<n;i++)
	{
		printf("Enter The Value At Index-%d:-",i+1);
		scanf("%d",&a[i]);
	}

	for(int i=0;i<n;i++)
	{
		if(*a[i]>max)
		{
			max= *a[i];
		}
	}

	printf("The Maximum Value In Array Is %d",max);
}

int main()
{
	int n;

	printf("Enter The Size Of An Array:-");
	scanf("%d",&n);

	int *a[n];
```

```
    maxn(n,&a[n]);

    return 0;

}
```

Output:-

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030