ASSIGNMENT – 1

By Naveen , BCA 1st sem

Question.1 - To accept student details and display them .

Answer.1 – Program :

```c
/* Here is a program to accept student details and display them

</> Naveen

Date: 19 oct 2021

*/


#include<stdio.h>

#include<conio.h>


void main()

{

  //Header

  printf("\n\t Program to accept student details from user");

  printf("\n\t***************** ********************");

  // Decalring variable

  char FNAME[20], SNAME[20], FFNAME[20], FSNAME[20];

  long long CNUM,FCNUM;

  //Taking input from user

  printf("\n\t Enter Student Name : ");

  scanf("%s %s",&FNAME,&SNAME);

  printf("\n\t Enter Student Contact Number :");

  scanf("%lld",&CNUM);

  printf("\n\t Enter student Father name :");

  scanf("%s %s",FFNAME,FSNAME);

  printf("\n\t Enter Father contact number :");

  scanf("%lld",&FCNUM);
```
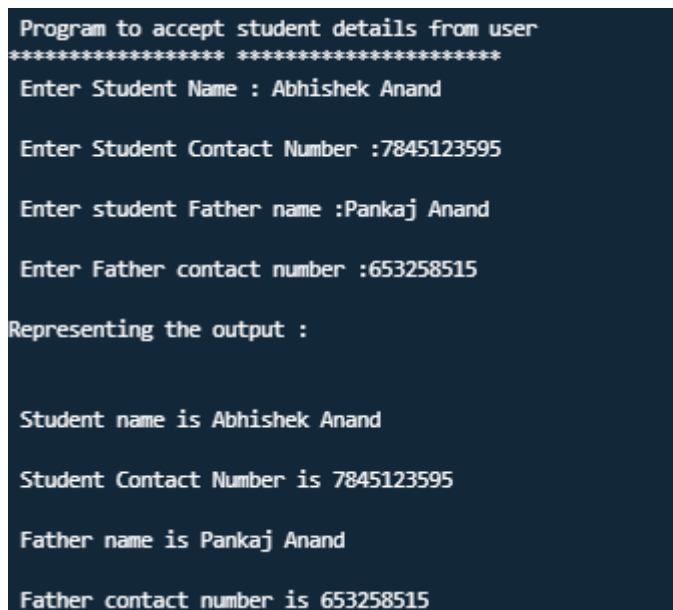
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printf("\n\tRepresenting the output : \n\n");

printf("\n\t Student name is %s %s \n",FNAME,SNAME);

printf("\n\t Student Contact Number is %lld \n",CNUM);

printf("\n\t Father name is %s %s \n",FFNAME,FSNAME);

printf("\n\t Father contact number is %lld \n",FCNUM);

}

OUTPUT :

```
Program to accept student details from user
****************** **********************
Enter Student Name : Abhishek Anand

Enter Student Contact Number :7845123595

Enter student Father name :Pankaj Anand

Enter Father contact number :653258515

Representing the output :


Student name is Abhishek Anand

Student Contact Number is 7845123595

Father name is Pankaj Anand

Father contact number is 653258515
```

Question 2.- To find simple interest
Answer 2.- Program :
```
/* Here is a program to find simple interest
</> Naveen
Date: 19 oct 2021 */
#include<stdio.h>
#include<conio.h>
//Defining values
#define INTEREST 0.1
int main()
{
   //Header
   printf("\n\t Program to calculate simple interest");
   printf("\n\t ***********************************\n\n");
```
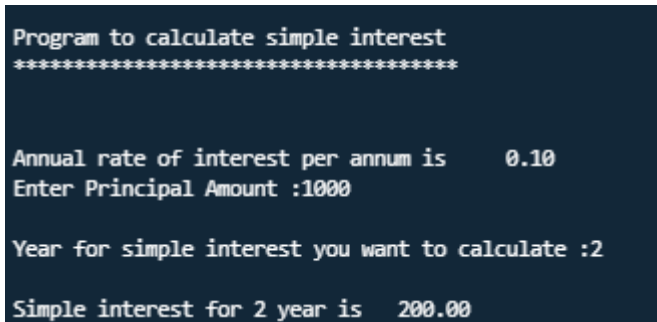
```
    //Declaring Variables
    int p_amount,year;
    float SI;
    //Prompt user to take input
    printf("\n\t Annual rate of interest per annum is %8.2f",INTEREST);
    printf("\n\t Enter Principal Amount :");
    scanf("%d",&p_amount);
    printf("\n\t Year for simple interest you want to calculate :");
    scanf("%d",&year);
    //Simple interest formula
    SI=p_amount*INTEREST*year;
    //output
    printf("\n\t Simple interest for %d year is %8.2f",year,SI);
}
```

OUTPUT :

```
Program to calculate simple interest
*************************************


Annual rate of interest per annum is      0.10
Enter Principal Amount :1000

Year for simple interest you want to calculate :2

Simple interest for 2 year is    200.00
```

Question.3 – To find sum of two numbers.

Answers.3 – Program :

```
/* Here is a program to add two numbers
</> Naveen
Date: 19 oct 2021 */
#include<stdio.h>
#include<conio.h>

int main()
{
    //header
    printf("\n\t Program to add numbers ✚ ");
    printf("\n\t ****************************");
    //declaring variable
    int num1,num2,sum;
    //prompt user to give input
    printf("\n\tEnter First Number :");
    scanf("%d",&num1);
    printf("\n\tEnter Second Number :");
    scanf("%d",&num2);
```
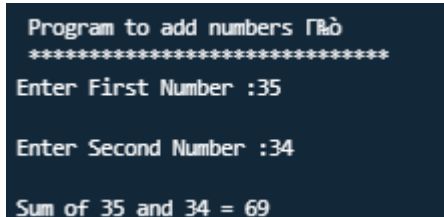
```
  //Calculations
  sum=num1+num2;
  //Printing output
  printf("\n\tSum of %d and %d = %d",num1,num2,sum);
}
```

OUTPUT :

Question 4 -To find product of three numbers.

Answer 4- Program :

```
/* Here is a program to find product of three numbers
</> Naveen
Date: 19 oct 2021 */
#include<stdio.h>
#include<conio.h>

int main()
{
  //Header
  printf("\n\tHere is program to find product of three numbers ✖ ");
  printf("\n\t*******************    **************************");
  //Declaring variable
  int num1,num2,num3,product;
  //Prompt the user to give input
  printf("\n\t Enter 1st number :");
  scanf("%d",&num1);
  printf("\n\t Enter 2nd number :");
  scanf("%d",&num2);
  printf("\n\t Enter 3rd number :");
  scanf("%d",&num3);
  //Calculations
  product=num1*num2*num3;
  //Giving output
  printf("\n\tProduct of %d,%d,%d is %d",num1,num2,num3,product);
}
```

OUTPUT :

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```
Here is program to find product of three numbers Гfû
********************    ***************************
 Enter 1st number :25

 Enter 2nd number :4

 Enter 3rd number :10

Product of 25,4,10 is 1000
```

Question 5- To find average of marks scored in 5 subjects

Answers5 – Program :

```c
/* Here is a program to find average of marks scored in 5 subjects
</> Naveen
Date: 19 oct 2021 */
#include<stdio.h>
#include<conio.h>

int main()
{
   //Header
   printf("\n\t Program to Find Average Of Marks Scored in 5 Subjects");
   printf("\n\t *****************
**************************************");
   //Declaring variable
   float s1,s2,s3,s4,s5,sum,avg;
   //Prompt user for input
   printf("\n\t Marks scored in 1st Subject :");
   scanf("%f",&s1);
   printf("\n\t Marks scored in 2nd Subject :");
   scanf("%f",&s2);
   printf("\n\t Marks scored in 3rd Subject :");
   scanf("%f",&s3);
   printf("\n\t Marks scored in 4th Subject :");
   scanf("%f",&s4);
   printf("\n\t Marks scored in 5th Subject :");
   scanf("%f",&s5);
   //Calculation Average
   sum=s1+s2+s3+s4+s5;
avg=sum/5;
   //Printing output
   printf("\n\t Average of %8.2f,%8.2f,%8.2f,%8.2f,%8.2f =
%8.2f",s1,s2,s3,s4,s5,avg);
}
```

OUTPUT :

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```
Program to Find Average Of Marks Scored in 5 Subjects
******************* *****************************************
Marks scored in 1st Subject :10

Marks scored in 2nd Subject :20

Marks scored in 3rd Subject :30

Marks scored in 4th Subject :40

Marks scored in 5th Subject :50

Average of    10.00,   20.00,   30.00,   40.00,   50.00 =    30.00
```

Question6- To find the total purchase made on 4 different items purchased

Answer6- Program:

```c
/* Here is a program to find the total purchase made on 4 different items purchased
</> Naveen
Date : 21 oct 2021
*/
#include<stdio.h>
#include<conio.h>

int main()
{
    printf("\n\tHere is program to find the total purchase made on four different items purchased.");

printf("\n\t***************************************************************************");
    int i1,i2,i3,i4,sum;
    printf("\n\t Price of 1st item :");
    scanf("%d",&i1);
    printf("\n\t Price of 2nd item :");
    scanf("%d",&i2);
    printf("\n\t Price of 3rd item :");
    scanf("%d",&i3);
    printf("\n\t Price of 4th item :");
    scanf("%d",&i4);
    sum=i1+i2+i3+i4;
    printf("\n\tYour total  purchase is : %d",sum);
}
```

OUTPUT :

```
Here is program to find the total purchase made on four different items purchased.
************************************************************************************
 Price of 1st item :20

 Price of 2nd item :20

 Price of 3rd item :10

 Price of 4th item :20

Your total  purchase is : 70
```

Question7 – To find square of a number

Answer7- Program:

```
/* Here is program to find square of a number
</> Naveen
Date : 21oct2021
*/
#include<stdio.h>
#include<conio.h>

void main()
{
   printf("\n\t This is a program to find square of a number");
   printf("\n\t *******************************************");
   long long num, sq;
   printf("\n\t Input the number you want to find square of :");
   scanf("%lld",&num);
   sq=num*num;
   printf("\n\t Square of %lld is %lld ",num,sq);
}
```

OUTPUT:

```
This is a program to find square of a number
*********************************************
Input the number you want to find square of :5

Square of 5 is 25
```

Question8- To find cube of a number

Answer8- Program :

```
/* Here is program to find square of a number
</> Naveen
Date : 21oct2021
*/
#include<stdio.h>
#include<conio.h>
```
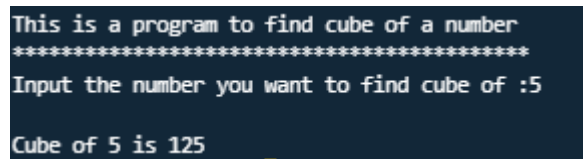
```c
void main()
{
    printf("\n\t This is a program to find cube of a number");
    printf("\n\t *****************************************");
    long long num, cb;
    printf("\n\t Input the number you want to find cube of :");
    scanf("%lld",&num);
    cb=num*num*num;
    printf("\n\t Cube of %lld is %lld ",num,cb);
}
```

OUTPUT :

```
This is a program to find cube of a number
***********************************************
Input the number you want to find cube of :5

Cube of 5 is 125
```

Question9 – To find square root of a number

Answer9- Program :

```c
/* Here is a program to find a square root of given number
</> Naveen
Date : 22 oct 2021
*/

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

int main()
{
    int num,sqart;
    printf("\n\tThis is a program to find square root of a given number");
    printf("\n\t ******************************************************");
    printf("\n\t Enter the number : ");
    scanf("%d",&num);
    sqart=sqrt(num);
    printf("\n\t Square root of %d is %d",num,sqart);
}
```

OUTPUT :

```
This is a program to find square root of a given number
*********************************************************
Enter the number : 25

Square root of 25 is 5
```

Question10 – To find Area of circle
Answer10 – Program :
```
/* Here is a program to find the Area of circle
</> Naveen
Date 22oct 2021
*/
#include<stdio.h>
#include<conio.h>
#define PI 3.14
int main()
{
    float rad,area;
    printf("\n\t This program is to find the area of circle");
    printf("\n\t ****************************************");
    printf("\n\n\n\t Enter the radius of circle :");
    scanf("%f",&rad);
    area=PI*rad*rad;
    printf("\n\t Here value of PI is %8.2f",PI);
    printf("\n\n\t Area of circle having radius %8.2f is %8.2f",rad,area);
}
```

OUTPUT :

```
This program is to find the area of circle
******************************************


Enter the radius of circle :3

Here value of PI is     3.14

Area of circle having radius     3.00 is    28.26
```

Question11 – To find perimeter of a rectangle
Answer11 – Program :

```
/* Here is a proram to find perimeter of rectangle
</> Naveen
Date : 22oct2021
*/
#include<stdio.h>
```
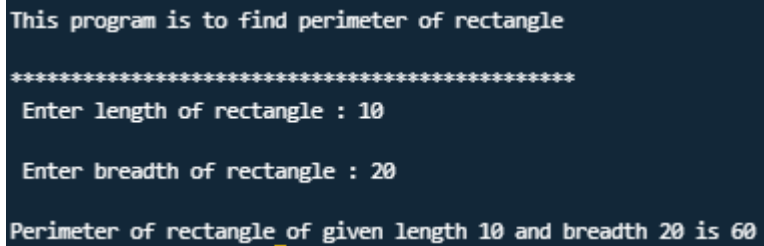
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```c
#include<conio.h>

int main()
{
    int ln,br,permtr;
    printf("\n\n\tThis program is to find perimeter of rectangle ");
    printf("\n\n\t*******************************************");
    printf("\n\t Enter length of rectangle : ");
    scanf("%d",&ln);
    printf("\n\t Enter breadth of rectangle : ");
    scanf("%d",&br);
    permtr=2*(ln+br);
    printf("\n\tPerimeter of rectangle of given length %d and breadth %d is
%d",ln,br,permtr);
}
```

OUTPUT :

```
This program is to find perimeter of rectangle

**************************************************
 Enter length of rectangle : 10

 Enter breadth of rectangle : 20

Perimeter of rectangle of given length 10 and breadth 20 is 60
```

THANK YOU SO MUCH 😊