THE ISLAMIA UNIVERSITY BAHAWALPUR

CLASS : MCS( EVENING , B )

ROLL NO: 037

SUBJECT: PROGRAMMING FUNDAMENTAL

TOPIC : SIMPLE PROGRAM

SUBMITTED BY : MUHAMMAD SAEED

SUBMITTED TO : MUHAMMAD MUNAWAR SAHB

ASSIGNMENT NO 1

PROGRAM NO 1

WRITE A PROGRAM THAT ASKS THE USER TO ENTER TWO NUMBERS,OBTAINS THE TWO NUMBERS FROM THE USER & PRINTS THE SUM,PRODUCT,DIFFERENCE & QUOTIENT OF THE TWO NUMBERS.

#include<iostream>

using namespace std;

int main()

{

int num1,num2,sum,product,difference;

float quotient;

cout<<"Enter the first number";

cin>>num1;

cout<<"Enter 2nd number";

cin>>num2;

sum=num1+num2;

product=num1\*num2;

difference=num1-num2;

quotient=num1/num2;

cout<<sum<<endl;

cout<<product<<endl;

cout<<difference<<endl;

cout<<quotient<<endl;

return 0;

}

PROGRAM NO 3

DISPLAYING A DIAMOND WITH ASTERISKS USING COUT STATEMENT ONLY.

#include<iostream>

using namespace std;

int main()

{

cout<<" \* "<<endl;

cout<<" \*\*\* "<<endl;

cout<<" \*\*\*\*\* "<<endl;

cout<<" \*\*\*\*\*\*\* "<<endl;

cout<<"\*\*\*\*\*\*\*\*\*"<<endl;

cout<<" \*\*\*\*\*\*\* "<<endl;

cout<<" \*\*\*\*\* "<<endl;

cout<<" \*\*\* "<<endl;

cout<<" \* "<<endl;

return 0;

}

PROGRAM NO 4

RAMESH’S BASIC SALARY IS INPUT THROUGH THE KEYBOARD. HIS DEARNESS ALLOWANCE IS 40% OF BASIC SALARY ,& HOUSE RENT ALLOWANCE IS 20% OF BASIC SALARY.WRITE A PROGRAM TO CALCULATE HIS GRASS SALARY.

#include<iostream>

using namespace std;

int main()

{

float basic\_salary,dearness\_allowance;

float house\_rent,gross\_salary;

cout<<"Enter the salary";

cin>>basic\_salary;

dearness\_allowance=basic\_salary\*40/100;

house\_rent=basic\_salary\*20/100;

gross\_salary=basic\_salary+dearness\_allowance+house\_rent;

cout<<gross\_salary;

return 0;

}

PROGRAM NO 5

THE DISTANCE B/W TWO CITIES (IN KM ) IS INPUT THROUGH THE KEYBOARD .WRITE A PROGRAM TO CONVERT & PRINT THIS DISTANCE IN METERS ,FEET,INCHES AND CENTIMETERS.

#include<iostream>

using namespace std;

int main()

{

float km,metres,feets,inches,centimetre;

cout<<"Enter the kilometre";

cin>>km;

metres=km\*1000;

feets=km\*3280.84;

inches=km\*39370.1;

centimetre=km\*100000;

cout<<metres<<endl<<feets<<endl;

cout<<inches<<endl<<centimetre;

return 0;

}

PROGRAM NO 6

IF THE MARKS OBTAINED BY A STUDENT IN FIVE DIFFERENTS SUBJECTS ARE INPUT THROUGH THE KEYBOARD,FIND OUT THE AGGREGATE MARKS AND PERCENTAGE MARKS OBTAINED BY THE STUDENT .ASSUME THAT THE MAXIMUM MARKS THAT CAN BE OBTAINED BY A STUDENT IN EACH SUBJECT IS 100.

#include<iostream>

using namespace std;

int main()

{

float subj1,subj2,subj3,subj4,subj5;

float sum,percentage,aggregates\_marks;

cout<<"Enter the marks in five subjects";

cin>>subj1>>subj2>>subj3>>subj4>>subj5;

sum=subj1+subj2+subj3+subj4+subj5;

aggregates\_marks=sum/5;

percentage=(sum/500)\*100;

cout<<aggregates\_marks<<endl<<percentage;

return 0;

}

PROGRAM NO 7

TEMPERATURE OF A CITY IN FAHRENHEIT DEGREES IS INPUT THROUGH THE KEYBOARD .WRITE A PROGRAM TO CONVERT THIS TEMPERATURE INTO CENTIGRADE DEGREES.

#include<iostream>

using namespace std;

int main()

{

float fahrenheit,centigrade;

cout<<"Enter the temperature";

cin>>fahrenheit;

centigrade=5.0/9.0\*(fahrenheit-32);

cout<<centigrade;

return 0;

}

PROGRAM NO 8

THE LENGTH & BREADTH OF A RECTANGLE AND RADIUS OF A CIRCLE ARE INPUT THROUGH THE KEYBOARD. WRITE A PROGRAM TO CALCULATE THE AREA & PERIMETER OF THE RECTANGLE,AND THE AREA & CIRCUMFERENCE OF THE CIRCLE.

#include<iostream>

#include<conio.h>

using namespace std;

int main()

{

float length,width,radius,area\_of\_circle,perimetre;

float circumference,area\_of\_rectangle;

cout<<"Enter the length of rectangle";

cin>>length;

cout<<"Enter the width of rectangle";

cin>>width;

cout<<"Enter the radius of circle";

cin>>radius;

area\_of\_circle=3.141\*radius\*radius;

circumference=2.0\*3.141\*radius;

perimetre=2\*(length+width);

area\_of\_rectangle=length\*width;

cout<<area\_of\_circle<<endl;

cout<<circumference<<endl;

cout<<perimetre<<endl;

cout<<area\_of\_rectangle<<endl;

return 0;

}

PROGRAM NO 9

TWO NUMBERS ARE INPUT THROUGH THE KEYBOARD INTO TWO LOCATIONS C AND D . WRITE A PROGRAM INTERCHANGE THE CONTENTS OF C AND D.

#include<iostream>

using namespace std;

int main()

{

int num1,num2,num5;

cout<<"Enter the number";

cin>>num1;

cout<<"Enter the number";

cin>>num2;

num5=num1;

num1=num2;

num2=num5;

cout<<num1<<endl;

cout<<num2<<endl;

return 0;

}

PROGRAM NO 10

IF A FIVE- DIGIT NUMBER IS INPUT THROUGH THE KEYBOARD ,WRITE A PROGRAM TO CALCULATE THE SUM OF ITS DIGITS.( hint : use the modulus operator “%”)

#include<iostream>

using namespace std;

int main()

{

int n,a,b,c,d,sum;

cout<<"Enter the number";

cin>>n;

a=n/10000;

n=n%10000;

b=n/1000;

n=n%1000;

c=n/100;

n=n%100;

d=n/10;

n=n%10;

sum=a+b+c+d+n;

cout<<sum;

return 0;

}

PROGRAM NO 11

IF A FIVE DIGIT NUMBER IS INPUT THROUGH THE KEYBOARD,WRITE A PROGRAM TO REVERSE THE NUMBER.

#include<iostream>

using namespace std;

int main()

{

int num,a,b,c,d;

cout<<"Enter the 5- digit number";

cin>>num;

a=num/10000;

num=num%10000;

b=num/1000;

num=num%1000;

c=num/100;

num=num%100;

d=num/10;

num=num%10;

cout<<num<<d<<c<<b<<a;

return 0;

}

PROGRAM NO 12

IF A FOUR-DIGIT NUMBER IS INPUT THROUGH THE KEYBOARD , WRITE A PROGRAM TO OBTAINED THE SUM OF THE FIRST AND LAST DIGIT OF THIS NUMBER.

#include<iostream>

#include<conio.h>

using namespace std;

int main()

{

int n,num1,num2,num3,sum,num4;

cout<<"Enter the number";

cin>>n;

num1=n/1000;

n=n%1000;

num2=n/100;

n=n%100;

num3=n/10;

num4=n%10;

sum=num1+num4;

cout<<sum;

getch();

}

END OF ASSIGNMENT

WRITTEN BY:

“ RANA SAEED “