**Jimma University**

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**Programming II Individual Assignment**

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**Exercise from chapter 2**

**1.** #include <iostream>

using namespace std;

int main()

{

int x,y,z,result;

cout<<"please enter three numbers to multiply\n";

cin>>x>>y>>z;

result=x\*y\*z;

cout<<"The product is:"<<result;

return 0;

}

**2.** #include<iostream>

using namespace std;

int main()

{

float x,y,sum,diff,pro,que;

cout<<"Enter two numbers to add\n";

cin>>x>>y;

sum=x+y;

cout<<"The sum of two numbers is= "<<sum;

cout<<"Enter two numbers to substract\n";

cin>>x>>y;

diff=x-y;

cout<<"The difference of two numbers is= "<<diff;

cout<<"Enter two numbers to multiply\n";

cin>>x>>y;

pro=x\*y;

cout<<"The product of two numbers is= "<<pro;

cout<<"Enter two numbers to divide\n";

cin>>x>>y;

que=(x/y);

cout<<"The quetionent of two numbers is= "<<que;

return 0;

}

**3**. #include <iostream>

using namespace std;

int main()

{

float r,C;pi=3.14;

cout<<"Please enter the radius of the circle:\n";

cin>>r;

C=2\*pi\*r;

cout<<"The circumference of a circle is: \n"<<C;

return 0; }

4.# include<iostream>

#include<cmath>

#include<cstdlib>

# include<cstring>

using namespace std;

int main(){

double a,b,c;

double x1,x2;

char x;

cout<<"enter the value of a=";

cin>>a;

cout<<"enter the value of b=";

cin>>b;

cout<<"enter the value of c=";

cin>>c;

cout<<"the quadratic eqution is"<<a;

cout<<"\*x\*x+"<<b;

cout<<"\*x+"<<c<<endl;

if(a==0&&b==0)

cout<<"not a valid eqution";

if(a==0&&b!=0){

x1=-(c/b);

cout<<endl;

cout<<"root="<<x1;

cout<<endl;

}

if((b\*b-4\*a\*c)>0){

x2=(b\*b)-(4\*a\*c);

x1=-b+sqrt(x2);

cout<<"root ="<<x1<<endl;

if((b\*b-4\*a\*c)<0){

cout<<"not a real root"<<endl;

}

system("pause");

return 0;

}

}

**Exercise from chapter 3**

**1**. #include <iostream>

using namespace std;

int main()

{

int sum=0;

for(int i=0;i<100;i++)

{

sum=sum+i;

}

cout<<sum;

return 0;

}

**2.** #include <iostream>

using namespace std;

int main()

{

cout<<"The numbers from 0-100 that are divisible by 2,3 and 5 are: ";

for(int i=0;i<100;i++)

{

if((i%2==0)&&(i%3==0)&&(i%5==0))

cout<<i<<" ";

}

return 0;

}

**3.** #include <iostream>

using namespace std;

int main()

{

int n,fact=1;

cout<<"enter the number\n";

cin>>n;

for(int i=n;i>=1;i--)

{

fact=fact\*i;

}

cout<<"The factorial of the given number is:\n"<<fact;

return 0;

}

**4**. #include <iostream>

using namespace std;

int main()

{

float sum=0;

int num=1;

while(num<=10)

{

sum+=num;

num++;

}

float average;

average=sum/10;

cout<<"The average of numbers from 0-10 is: "<<average<<endl;

return 0;

}